

LIFE

EYE-CATCHER

OCTOBER 5, 1942 **10** CENTS
YEARLY SUBSCRIPTION \$4.50

It's a good

sign for the times



These are days when good *value* becomes our national guide to careful buying. In towels, you want a quality that's completely right for stringent times. You want a luxurious deep terry for pleasant drying — plus strong weaves to weather rugged wear. And yet there must be *beauty*, too — fresh, decorative designs to delight the eye, to bring new charm and color to the bathroom. These things spell CANNON to the majority of American homemakers, who know their values. Let the famous Cannon label point the way for *you* when buying towels. Cannon Mills, Inc., 70 Worth Street, New York City.



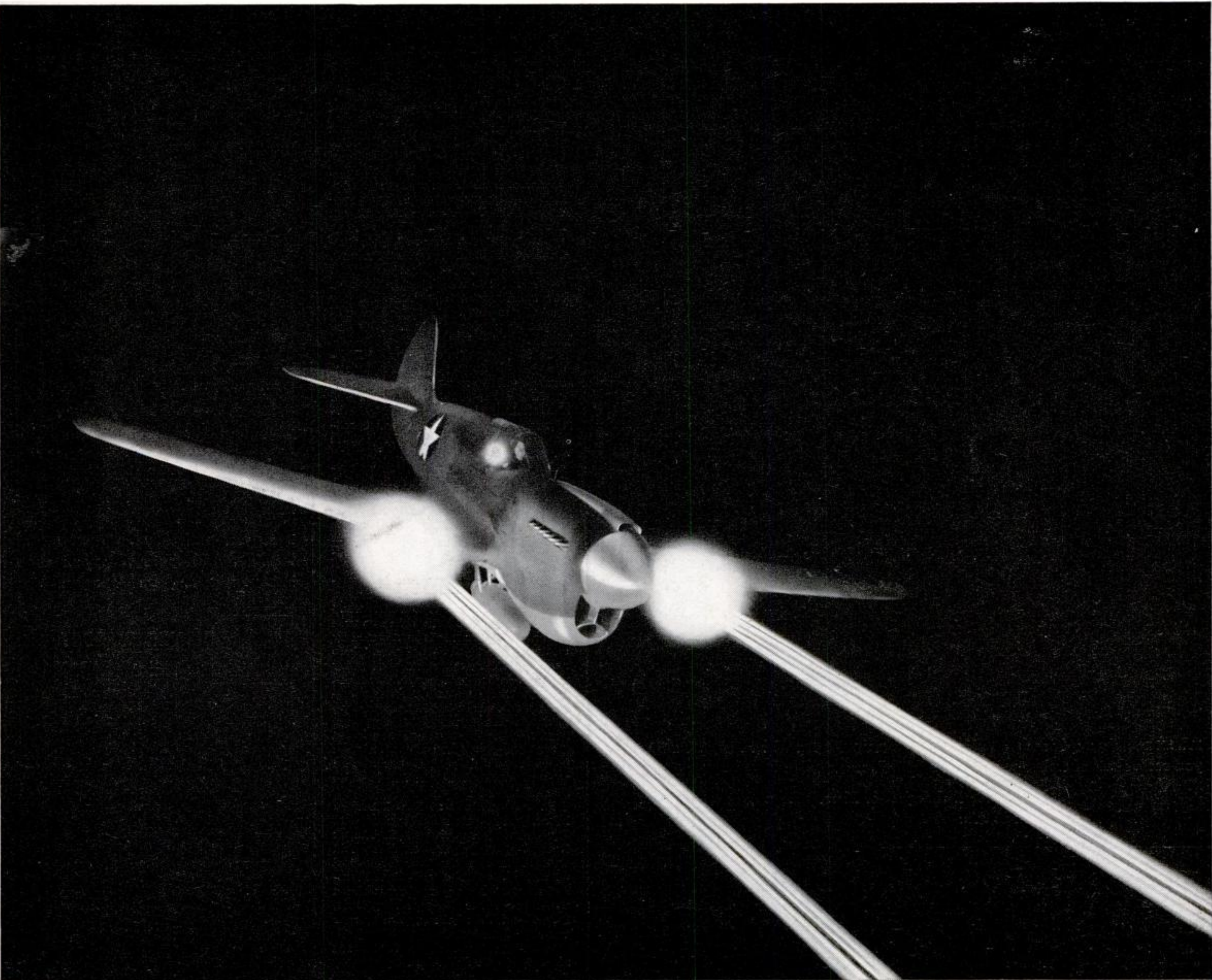
Cannon has a war job, too. While equipping the boys in Ireland and Quantico, Australia and Pensacola, Cannon is doing its best to fill your normal towel needs, too.

• Smart white towels with gay colored borders and decorative texture are featured stars of the new Cannon towels. You'll be impressed with the distinction of these white towels — another example of Cannon design which so beautifies bathrooms.

Cannon Towels

CANNON SHEETS

CANNON HOSIERY



**He's firing telephone wire
at a Zero!**

THIS fighter plane, with its six wing guns spitting fire, uses up enough copper every minute to make several miles of telephone line.

That's the right use for copper now — and it's the reason why we can't continue to expand our facilities to take care of the expanding Long Distance telephone traffic.

Right now, our lines are flooded with Long Distance calls. Most of them have to do with the war — they must have the right of way.

Will you help us keep the wires clear for war calls — industrial calls that send a plane down the assembly line — military calls that send it into the air against the enemy?

You can do it by keeping your own calls as few and as brief as possible. And you'll be bringing Victory that much nearer.

Bell Telephone System



Mr. Skirm yelled, "WAIT!" ...so I waited!



MR. SKIRM: Peggy, how many times do you use a sheet of carbon paper?

PEGGY: Why, uh . . . ah, about 20 times I guess.

MR. SKIRM: I thought so. Here, take a look at this:

This is the sixtieth copy made with the same sheet of Royal Park Avenue Carbon Paper. This sheet of carbon paper had been used 59 times before! The test was made at the United States Testing Company, Inc., one of America's largest independent testing laboratories. See what a clear, legible copy this sixtieth one is!

Laboratory test No. 20960-NY, issued July 30, 1942

PEGGY: Jeppers, it's a miracle! How come?

MR. SKIRM: As I understand it, Park Avenue is *deep-inked*. Royal uses some special process that soaks the ink right down into the paper. Another reason is Park Avenue's extension edge. That lets you reverse each sheet, top to bottom, so that you use all parts of the paper.

PEGGY: Ah me, too bad such 18-carat carbon paper can't be on the desk of every girl in the office.

MR. SKIRM: It's going to be, starting Monday. And, believe me, I'm going to expect you girls to get a lot more mileage out of your carbon paper from now on!

* * *

PARK AVENUE is only one of the outstanding carbon papers in the Royal line. Why not get *your* purchasing agent to call in the local Royal representative

today? He can quickly show you which weight and finish of Royal Carbon Paper exactly fits your every typing need.

Royal Carbon Papers and Ribbons are made by the Roytype* Division of the Royal Typewriter Company.

The armed forces need typewriters! See how many of your standard machines (made since Jan. 1, 1935) you can spare. Call your nearest Royal Branch—we will buy them, affix the Government seal, and pay you the Government fixed price.

*Trade-Marks Registered U. S. Pat. Off.
Copyright 1942, Royal Typewriter Company, Inc.

ROYAL
Park Avenue
CARBON PAPER

LETTERS TO THE EDITORS WOOSUNG PRISONERS

Sirs:

Freedom, the Jap magazine published in Shanghai which featured American prisoners interned at Woosung (*LIFE*, Sept. 14), is edited by a Japanese from the University of Southern California or U.C.L.A. He is one of several American-born Japs who are rallying and rollicking in the Japanese war in Occupied China.

Freedom's business manager is a Californian using an alias of Jack Howard, who is wanted in this country for forgery. He solicits advertising with a letter of command from the Japanese military spokesman, known to all foreign correspondents out there in the past two years as Colonel Akiyama.

R. D. Chisholm, formerly of Richmond, Va., is in on the spoils, running a Shopping News and using the Jap-seized American radio station XMHA. Carroll Alcott, now with WLW at Cincinnati, was the best-known broadcaster on that station and several times was threatened with death.

Herbert Erasmus Moy, former student at Columbia University, New York City, is head of much of Jap radio propaganda. Robert Fockler, of German-American parentage, handles anti-American and anti-United Nations propaganda and uses a Jap army-controlled German station.

Your excellent story gave the Japanese propaganda paragraphs—"music, merriment . . . unexpected kindness." I have learned this from some who were in the same prison: it is surrounded by electrically charged barbed wire. There are no beds. Prisoners sleep on straw mats. Drinking water is of uncertain quality. There is a shortage of medicines. The roofs leak. The buildings are infested with rats, mosquitoes and bugs. Packages from outside are allowed about twice a month, but the Jap guards steal all the canned goods and tobacco and in turn sell them to the internees.

In contrast, look at Fort Missoula, Mont. and the unexcelled treatment of Jap aliens (the worst of the Black Dragon gangs), who have hot and cold water, libraries, meals as good as served on any streamliner, individual rooms and in some cases guest houses (I am told), exercise, newspapers, magazines, radios and no rationing of sugar or other food products.

Coddling Japs over here will not earn respect from Jap militarists.

JAMES R. YOUNG

International News Service
New York, N. Y.

Sirs:

Although we had known for months that our friend Commander Thyson is a prisoner of the Japanese, you cannot imagine with what shock we studied his face in *LIFE*. When we last saw him before he left for China, his face was solid and unlined. One would say that the man you have pictured is 20 years the senior of the man we knew.

Our youngest child loved Dr. Thyson and still calls him on her telephone when her dolls are sick. It was a problem for us to decide whether to show her these pictures. There was no need for our concern—she could not recognize her friend!

MR. & MRS. A. C. PETERSON
Bremerton, Wash.

TURKEY

Sirs:

Congratulations on an understanding summary of Turkey's situation and outlook (*LIFE*, Sept. 14).

I noticed with particular interest the photograph of Lieutenant Anderson shaking hands with Ambassador Steinhardt with his left hand. He was shot through the right hand before he landed, either by a German fighter or by Turkish anti-aircraft fire. He and his crew removed the bullets or shrapnel themselves and poured sulfanilamide powder into the wounds. He landed the huge bomber near Izmit on a new airfield at

(continued on p. 4)

insist on
double
or
nothing!



Why buy just any coat when you can get both luxury and long wear in an Alpagora! For every square inch of the fabric in this remarkable Coat has twice the number of hair fibres you find in the average coat. That's why it's called "Double-Dense". That's why the fabric is so soft and silky . . . yet so long wearing. And that's why you should insist on getting an Alpagora Coat!



THE TOPCOAT \$3250
THE OVERCOAT \$3750

ask for genuine
Alpagora

the
coat
with
the
double-
dense
fabric



At better stores everywhere or write
STRATBURY MFG. CO., GALION, OHIO

"I can't help but feel that if Hitler and *
had made that trip with us through those
plants, they would *** cut their throats ***"**

*—Oliver Lyttelton, British Minister of Production,
after his recent tour of America's War Plants.*



Copyright 1941—Philco Corporation

IN THIS total war, more than ever before, American industry is the partner of our valiant fighting forces on land, in the air and on the seas.

As a symbol of that partnership, the men and women of Philco have been awarded the new Army-Navy Production Award for high achievement in the production of communications equipment, radios for tanks, airplanes and ships, artillery fuzes, shells and storage batteries for the army, navy and war production plants.

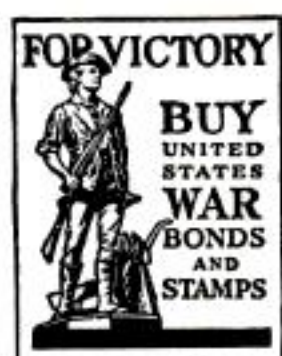
Philco's soldiers of industry are proud of the honor and recognition which has been bestowed upon them by America's fighting forces. They are proud, too, of the share they are giving to the nation's total effort in the war for freedom and the American way of life.

In this work and in their personal sacrifices, *total Victory* is their faith and inspiration! Victory for our cause and freedom to enjoy the untold blessings that will flow from the deadly miracles created for war.

Philco has asked America's leading editorial cartoonists to picture the significance of America's industrial might in the nation's united effort for Victory. This cartoon by Carl Rose is one of the series. It is being posted before Philco's soldiers of production as an expression of their spirit and an inspiration to their goal.

Free Limited Offer . . . While available, a full size reproduction of the original drawing by Carl Rose will be furnished gladly upon request. Simply address Philco Corporation, Philadelphia, Penna., and ask for Cartoon Number 23D.

PHILCO CORPORATION



America is conserving its resources for Victory. As you save on sugar, rubber, gasoline and all products of peace-time consumption, remember too to preserve the use of the things you own. Through its national service organizations, Philco offers, at reasonable and uniform charges, the means of prolonging the life of Philco products.

RADIOS, PHONOGRAPHS, REFRIGERATORS, AIR CONDITIONERS, RADIO TUBES ★ ★ INDUSTRIAL STORAGE BATTERIES FOR MOTIVE POWER, SIGNAL SYSTEMS, CONTROL AND AUXILIARY POWER



This One



YWLC-7YN-H8LD

Copyrighted material

"WE'RE SISTERS ON TOP OF THE SKIN"

BARBARA ROBBINS, understanding mother in the hit show "Junior Miss," understands cleansing problems, too.



"Once upon a time only an actress wore make-up. Today—well—I bet your skin gets about as good a coat of cosmetics as mine! What's more, I hear lots of girls are getting around to a 'professional' cleanser that so many actresses use... Albolene Cleansing Cream."



"Why should an actress know best? Well, stage make-up is sticky. We need a cream efficient enough to do its work gently, without rubbing or irritation. The soothing effect of Albolene is just delightful...you'll see, when you try it."



And what a "mountain" of cleansing cream for \$1! This pound tin was first put up for professional use. Now you may buy it too, at your druggist's. Brings cost down to 6¼ cents an ounce! Sold also in jars at 50¢, 25¢, 10¢.

Cut Cleansing Cream Costs 50%!

Try this different cream—pure, unscented, soothing

LOOK AT THE LABEL of your present cleansing cream. See what is the quantity. Figure the ounce price. Compare with Albolene! The three largest-selling cleansing creams average twice as high in price as Albolene—using the larger and most economical sizes for fair comparison!

CAN YOU BE AS REALISTIC as an actress about your beauty? Invest your money in exquisite purity, in fine, delicate ingredients. That's what your money buys

when you get Albolene Cleansing Cream.

IT HAS TO BE PURE! So bland, so gentle is Albolene that it is widely used for skins too sensitive for ordinary cleansing methods. Many hospitals are important users of Albolene. So you know the quality has to be superb. You know Albolene has to be efficient—to rate so high with actresses. You ought to try it—today! Made in the laboratories of McKesson & Robbins, Inc., Bridgeport, Conn.

ALBOLENE

A "PROFESSIONAL" CLEANSING CREAM



LETTERS TO THE EDITORS (continued)

which the inaugural ceremonies were about to take place and completely stole the show! Anderson was taken to Istanbul, where he was treated at the modern American Hospital of which my father, Dr. Lorrin A. Shepard, is director and head surgeon. He rejoined his companions in Ankara later.

ROBERT A. SHEPARD
New Haven, Conn.

GAUGUIN FAMILY

Sirs:

In connection with your story on *The Moon and Sixpence* (LIFE, Sept. 14), here are some snapshots my husband took of our neighbors, the Gauguins, when we were living in Punaavia, Tahiti, three years ago.

It is not difficult to imagine in this picture of Ata, squatting Tahitian-fashion, the beautiful native girl she



ATA GAUGUIN

must have been when Paul Gauguin met her.

And you can easily see in the photo of Emile the remarkable resemblance



EMILE GAUGUIN

between him and his famous father. This picture was for sale in the local souvenir store and is some photographer's idea of a Tahitian fisherman.

ANNETTA C. HART
New York, N. Y.

IF I WERE PRESIDENT

Sirs:

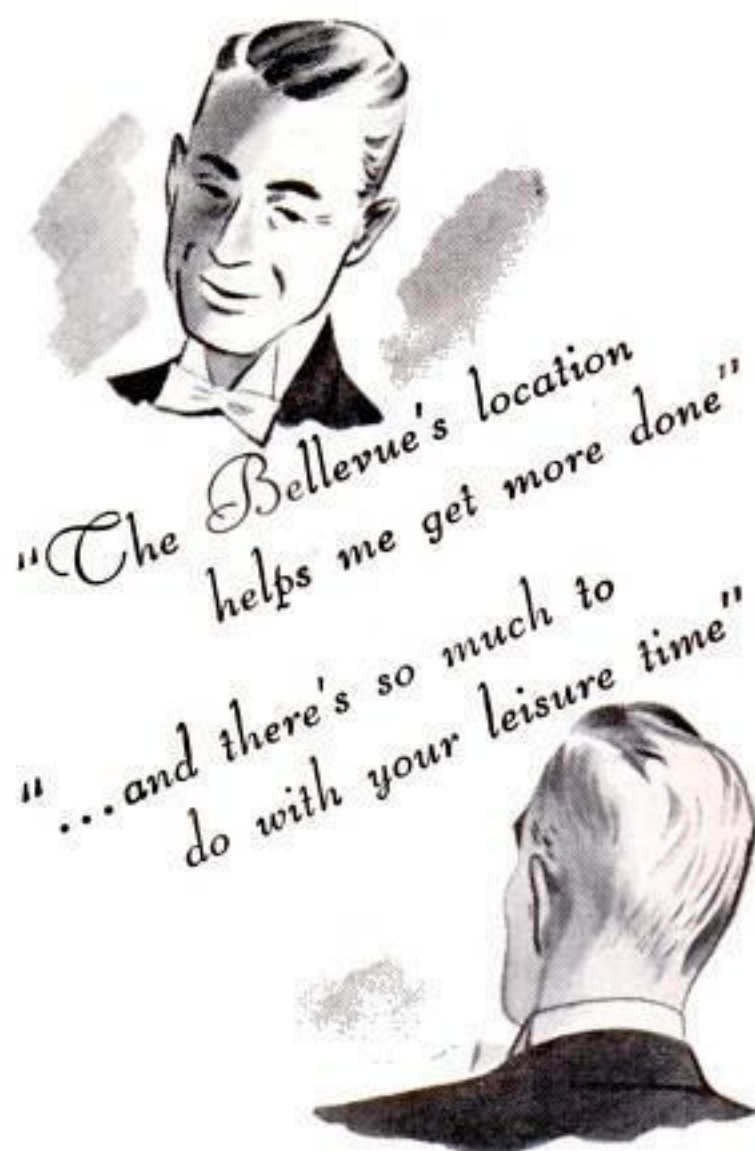
I have just read "If I Were President" (LIFE, Sept. 14) and the answers of the correspondents. I agree with them and I am sure that the great majority of Americans would voice the same opinions.

LOUIS M. SCHABLEIN JR.
New London, Conn.

Sirs:

Now that we know what reporters would do if they were President, perhaps the man in the street can say what

(continued on p. 6)



It's a NEW BELLEVUE in all but Tradition

Around the clock—your every wish is anticipated at the new Bellevue. A piping hot Bellevue breakfast, lunch in the unique new Club Buffet, a cocktail in the intimate Hunt Room. Dine with quiet elegance midst the handsome surroundings of the new Burgundy Room—enjoy famed Bellevue cuisine and renowned Bellevue service. Then, for your evening's entertainment, attend the theatre actually in the hotel—and close your day with supper-dancing in the Stratford Garden. Your own room will welcome you with its tasteful new decorations and restful atmosphere. Rise refreshed for a busy day—with all of downtown Philadelphia just a step away.



The smart and spacious new lobby



The Hunt Room for cocktails

THE BELLEVUE-STRATFORD

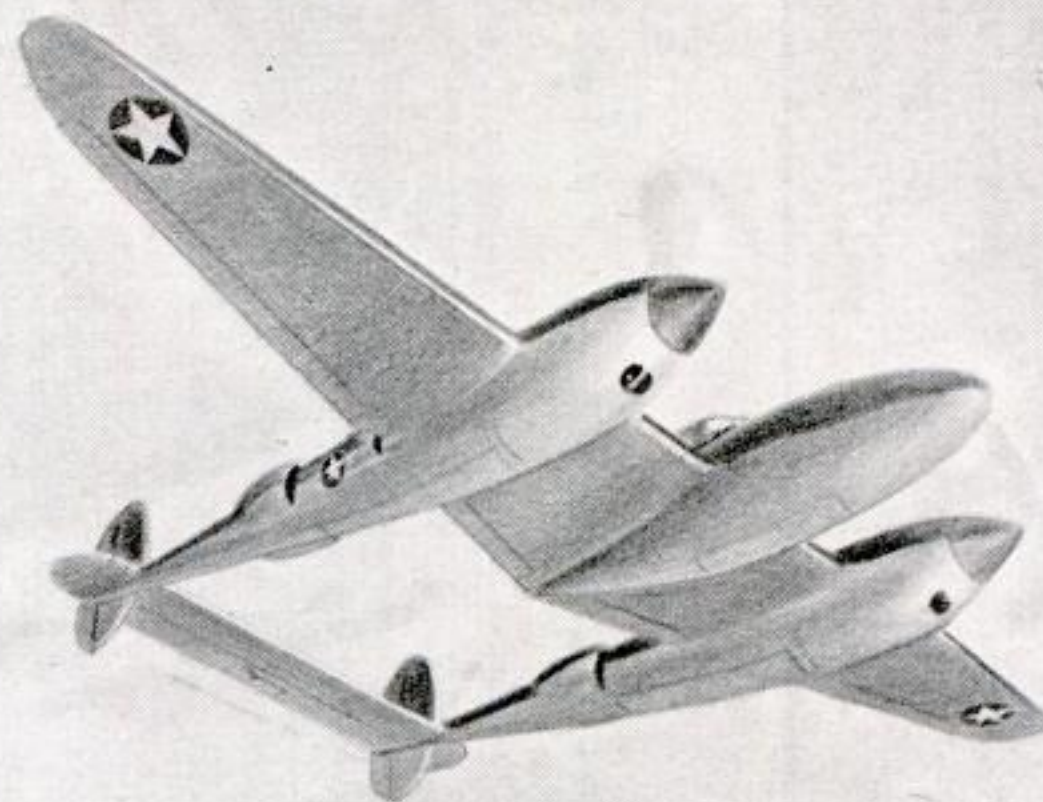
FAMOUS AMONG AMERICA'S HOTELS



CLAUDE H. BENNETT, President

PHILADELPHIA

AMERICA'S FIGHTING FLYERS *DESERVE* THE WORLD'S BEST GUNS!



FOR VICTORY, BUY UNITED STATES WAR BONDS!

-THAT'S THE CHALLENGE OLDSMOBILE IS MEETING TODAY!

"FIRE-POWER" for the fighting men who fly our fighter planes! Almost a year ago, Oldsmobile began volume production of automatic airplane cannon—the hard-hitting, fast-shooting guns that give our airmen their "Sunday-punch," to deliver the final knock-out over Nazis or Japs. These cannon fire deadly, high-explosive

shell, at a rate of hundreds a minute, at a range of thousands of feet. They've got to be good, to be worthy of the men who use them. For America's airmen—selected carefully, under rigid mental and physical qualifications, and trained thoroughly in every phase of aerial combat—acknowledge no superiors in any sky! Oldsmobile is proud to be producing for men like these—and equally proud to be building for the men in the ground forces, long-range cannon for tanks, plus shot and shell for tanks and the artillery!



The men behind the guns in Uncle Sam's great tanks deserve the best, too. For them, Oldsmobile is building heavy cannon, and shell to go with them.



The Army and Navy have joined in presenting to Oldsmobile the new Army-Navy Production Award, in recognition of achievement in war production.

OLDSMOBILE DIVISION OF GENERAL MOTORS

★ VOLUME PRODUCER OF "FIRE-POWER" FOR THE U. S. A. ★

LOOK AROUND

...and find what you're missing!



It may take a bit of looking around to get a Schick Electric Shaver these days. That's because our factory is all out on war production and the only Schicks now in stock were built before we went to work for Uncle Sam.

And, to take care of our old customers, we also built up a backlog of shearing heads and renewal parts for the nearly 4 million Schicks already in service.

So it's sure worth your while to hurry out and get your Schick Shaver now. And when you do get it, here's what you'll find.

You'll find that the ingenious 2-M Hollow-Ground Head of this marvelous shave-machine gently arches

the skin surface to make your beard stand up. Then, along comes the Flying Shuttle Shearer—with its 14,000 cutting actions per minute—and slicks those whiskers off clean and close—right down to the base—with no chance of nicks, cuts, scrapes or burn!

Pictured above is the Schick Colonel—handsomely styled in rich ivory plastic, and powered by the speedy "Whiskwik" motor that operates on both AC and DC. Its price is only \$15.* Get yours today. If, after 2 weeks' trial, you're not satisfied down to the last whisker, your dealer will refund every penny!

SCHICK INCORPORATED, Stamford, Conn., U.S.A.
*Slightly higher in Canada

★★

...not forgetting Schick Owners!

No matter how long ago you bought your Schick, we want you to get the same slick shaves as when it was new. And you can, because renewal parts and expert service are being kept available. And if you want to bring your Schick Shaver right up to date with a new 2-M Hollow-Ground Head—you can do so for only \$3 at the nearest office of Schick Service, Inc., listed here. Free of charge, your shaver will also be cleaned, lubricated and adjusted by factory experts.

ALBANY 938 Natl. Sav. B'k Bldg.	DALLAS 611 Southland Life Bldg.	MILWAUKEE 152 W. Wisconsin Ave.	PORTLAND, ORE. 1413 American B'k Bldg.
ATLANTA 603 Rhodes-Haverty Bldg.	DENVER 501 Colorado Bldg.	MINNEAPOLIS 612 Andrus Bldg.	PROVIDENCE 506 Turks Head Bldg.
BALTIMORE 111 N. Charles St.	DES MOINES 413 Fleming Bldg.	NEW ORLEANS 1801 Canal Bldg.	ROCHESTER, N. Y. 705 Temple Bldg.
BOSTON 630 Boston C. of C. Bldg.	DETROIT 908 Industrial B'k Bldg.	NEW YORK 17 East 42nd St.	ST. LOUIS 23 Mezzanine, Arcade Bldg.
BROOKLYN 1007 Fox Bldg.	HARTFORD, CONN. 1202 American Ind't'l Bldg.	NEWARK, N. J. 810 Raymond Com. Bldg.	SAN FRANCISCO 787 Monadnock Bldg.
BUFFALO 553 Andrews Bldg.	HOUSTON 521 Shell Bldg.	OKLAHOMA CITY 206 Hightower Bldg.	SEATTLE 701 Republic Bldg.
CHICAGO 212 Palmer House	INDIANAPOLIS 703 Merchants B'k Bldg.	OMAHA 647 Omaha Natl. B'k Bldg.	WASHINGTON, D. C. 521 Bond Bldg.
CINCINNATI 814 Schmidt Bldg.	KANSAS CITY, MO. 710 Fidelity B'k Bldg.	PHILADELPHIA 912 Chestnut St.	CANADIAN OFFICES
CLEVELAND 9 Union Com. Bldg. Arcade	LOS ANGELES 443 South Spring St.	PITTSBURGH 908 Investment Bldg.	TORONTO 78 Richmond St. West
COLUMBUS, O. 633 Hunt'gton B'k Bldg.	MIAMI 129 Shoreland Arcade	PORTLAND, ME. 210 Bank of Com. Bldg.	CALGARY 112A Seventh Ave. West

SCHICK ELECTRIC SHAVERS

LETTERS TO THE EDITORS (continued)

he would do were he a reporter. I would not imply that I, to the exclusion of all others, had access to inside Government information. I would leave prophesies of things to come to clairvoyants. I would try to understand that history will hold the President alone responsible for the handling of the war, and would cease insisting that he delegate this authority to another of my choosing.

I would not permit myself to devote a whole column to a satire on Mrs. Roosevelt's column, because you cannot sell your own goods by knocking your competitors'. I would try to overcome my tendency to regard anyone who doesn't have printer's ink under his nails as a sort of moron. And finally I would quit kidding myself that I was fooling the people into believing that I was an expert on all matters, and that I could cover completely any subject merely with the aid of a cigaret, a typewriter, a piece of paper and 15 minutes out of my lunch hour. I would try to report the news.

HAROLD GRIFFITH
Hugo, Okla.

Sirs:

My chips are on those Washington correspondents who declined to jump at the chance to tell the whole wild world what the President ought to do. If we could hear from these gentlemen we might get somewhere, now that LIFE has published opinions of the blow-hard-and-quickies.

VIVIAN M. WARD
La Mesa, Calif.

REMINGTON

Sirs:

The writer was most agreeably surprised to find in the Sept. 14 issue of LIFE the beautiful color prints from the great pictures of Frederic Remington. What a relief from the moronic vaporings of imbecile, sadistic insanities, called by psychopathic art critics "modern art."

W. H. OBER
Indianapolis, Ind.

Sirs:

I was greatly interested in the paintings by Frederic Remington, especially the one entitled *Howl of the Weather*, as my father and uncle posed for this picture. The scene was not from Remington's view of the St. Lawrence in Ogdensburg but from his island studio in Chippewa Bay, N. Y., where he was a neighbor and close friend of my family for many years.

ELIZABETH KNAP
Ogdensburg, N. Y.

SNAKE EGGS

Sirs:

In order to complete the story of snake reproduction which reached the halfway mark with the beautiful pictures in LIFE (Aug. 17) of a blue racer laying eggs, it seems worthwhile to report of the fate of the eggs.

The snake belonged to one of my students here at Goddard College who generously gave me the 28 eggs. They were placed in a container with damp



NEW-HATCHED BLUE RACERS

rotted wood and set on a shelf in the kitchen at home. On Aug. 16 and 17, 14 of them hatched, 69-70 days after laying (see cut).

ROBERT H. McCAULEY JR., PH.D.
Plainfield, Vt.



This gracious whisky reflects the finest tradition of hospitality. A luxury blend you will be proud to serve and can afford to enjoy regularly.



86.8 Proof
65% Grain
Neutral Spirits
Continental
Distilling
Corporation,
Philadelphia, Pa.

SAVE

**A FEW MINUTES A
DAY TO MASSAGE
SCALP AND HAIR
VIGOROUSLY**



with this common-sense
antiseptic hair tonic

JERIS
FOR ITCHING SCALP
At All Drug Stores and Barber Shops

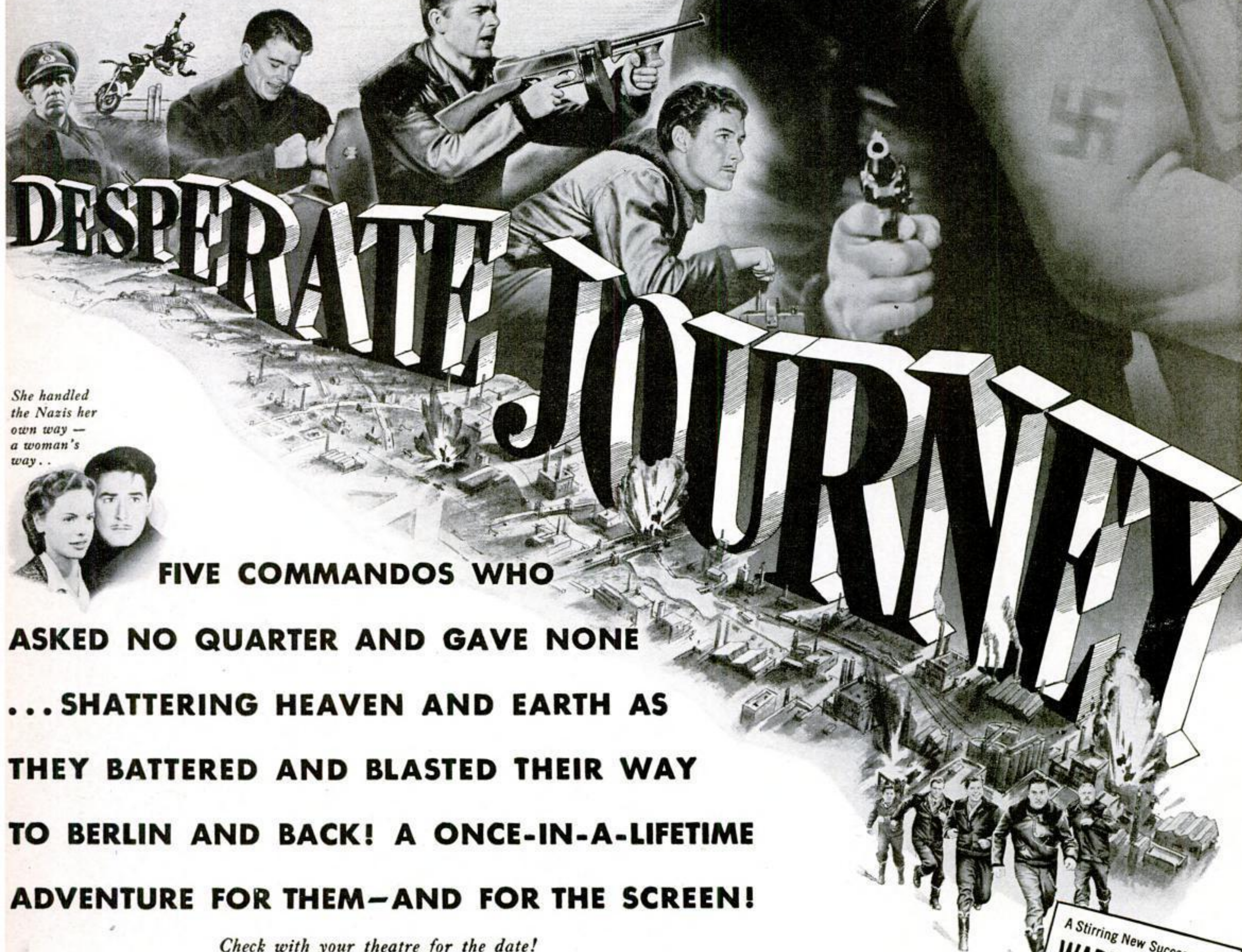
1942's GLORY-FILLED FILM IS HERE!

ERROL FLYNN

Shoulder-to-Shoulder with

RONALD REAGAN

in a Story Unparalleled in Power



FIVE COMMANDOS WHO

ASKED NO QUARTER AND GAVE NONE

... SHATTERING HEAVEN AND EARTH AS

THEY BATTERED AND BLASTED THEIR WAY

TO BERLIN AND BACK! A ONCE-IN-A-LIFETIME

ADVENTURE FOR THEM—AND FOR THE SCREEN!

Check with your theatre for the date!

Produced by

★ **HAL. B. WALLIS** ★ with **NANCY COLEMAN • RAYMOND MASSEY • ALAN HALE • ARTHUR KENNEDY •**

Directed by
RAOUL WALSH

Original Screen Play by Arthur T. Horman • Music by Max Steiner

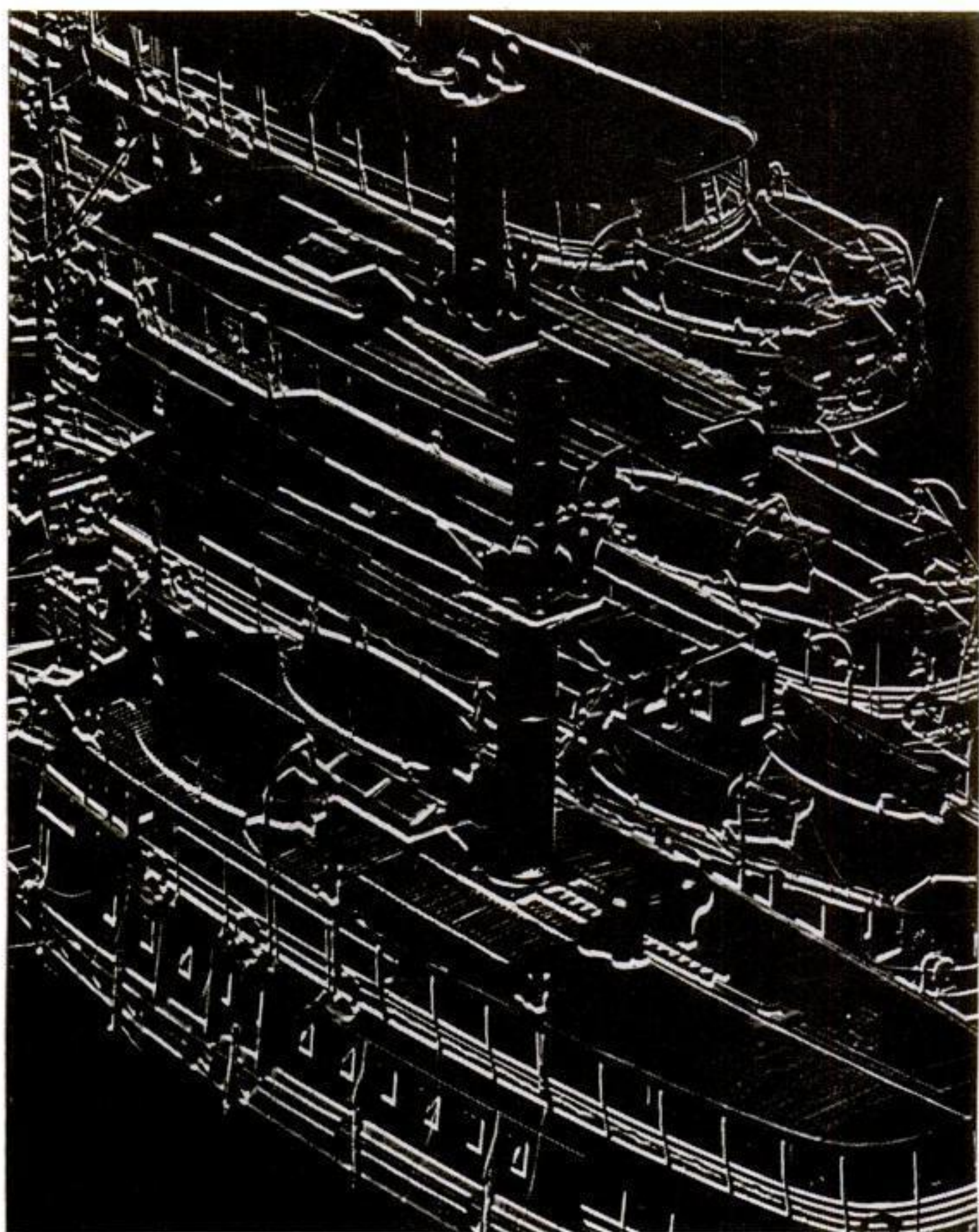
A Stirring New Success from
WARNER BROS.



Bas-relief effect in this picture of an early Gothic church is achieved by making diapositive (i. e. reverse of negative), then placing diapositive and original negative together and printing.



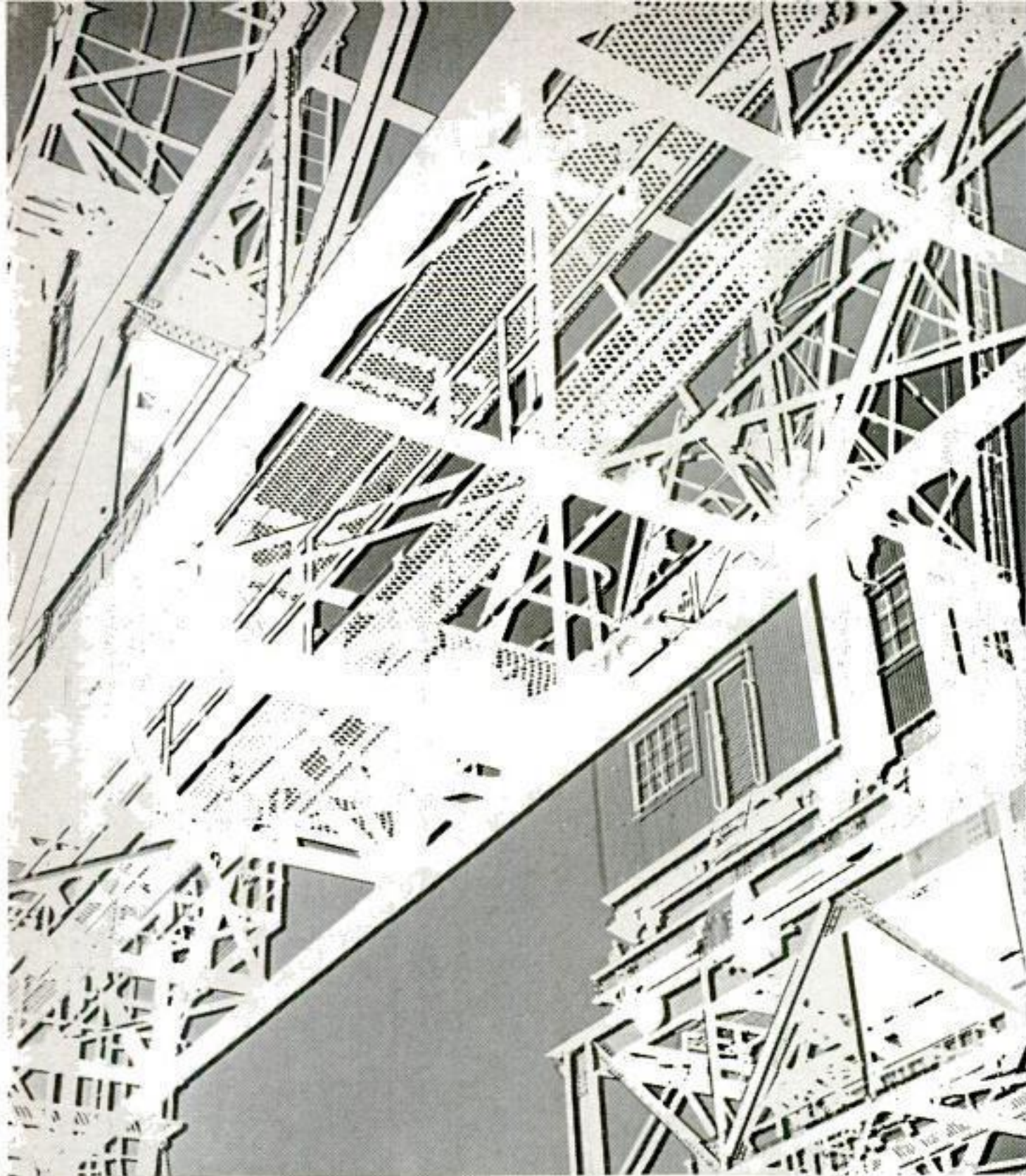
Hard printing paper is used when sharp black-and-white contrast is desired. When printing diapositive and negative together, they are held slightly off-register to create and emphasize lines.



Intaglio effect in this picture of lake steamers at Stockholm is also obtained by making diapositive from negative. But here print is first made on film, then on paper for desired result.



Solarized print of cast-iron pipes has an intangible, tumbling quality. During development, the negative is briefly exposed to white light, then developed a bit more, then "fixed" as usual.



Coal-yard derrick on Stockholm waterfront is also printed with bas-relief feeling. However, by using medium paper, Feininger has given it more gray shades than church buildings (*left*).

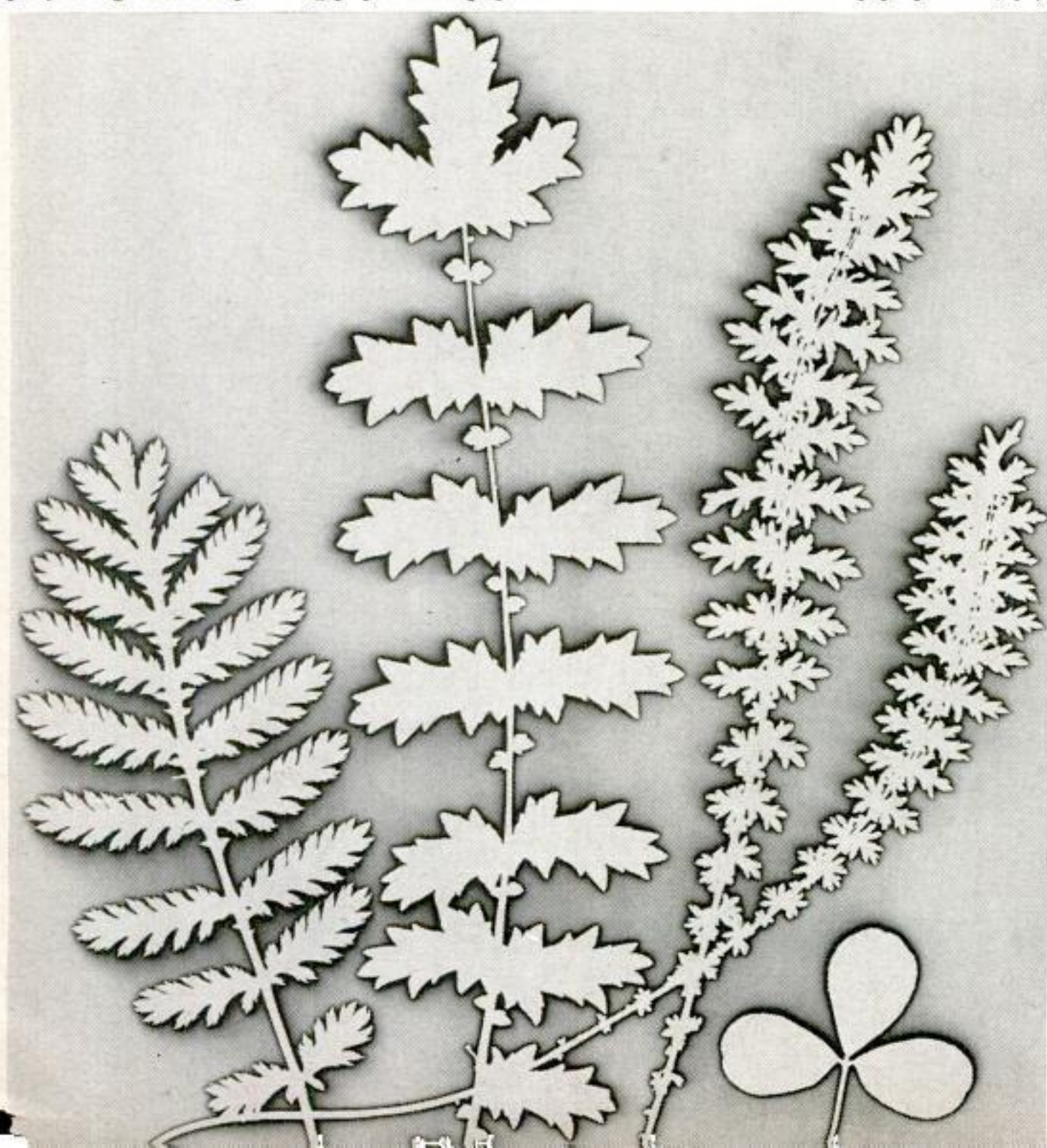
SPEAKING OF PICTURES . . .

HERE ARE NEW EXPERIMENTS

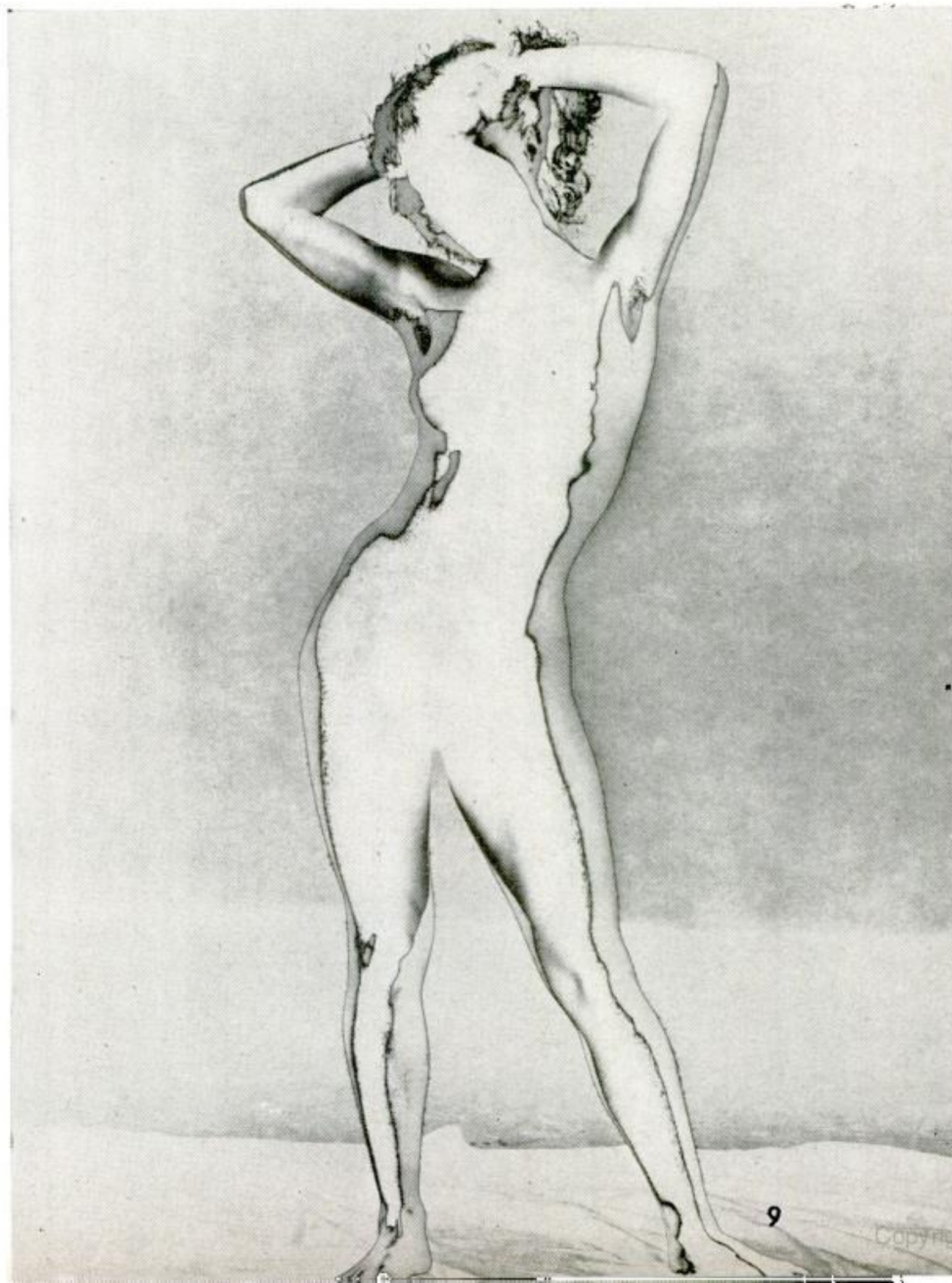
Andreas Feininger has long been known to LIFE's readers for his direct, literal approach to such subjects as New York City (April 14, 1941). Here on these pages are pictures which show his excursions into new forms of photography.

To get such startling effects as bas-relief in his buildings (*left*) and the delicate feeling of intangibility and grace into his nudes (*right*), Andreas Feininger has approached his subject matter as a painter would. He has changed his technique to fit his reactions to each of his subjects. He has adapted several darkroom practices, usually considered bad technique, to get these pictures. By carefully controlling such things as reticulation (i.e., shrinking of emulsion on negative; see next page) and off-register printing, he has produced these fascinating patterns.

Shadow print of small leaves was made by placing leaves in negative carrier of enlarger and projecting them on printing paper. The paper was then solarized like iron-pipe prints (*left*).



Etched figures were photographed with extremely bright highlights, deep black shadows and no intermediate grays. These are made from solarized negatives. All solarized prints have both negative and positive qualities. Standing figure (*below*) has exotic angularity of a Paul Klee painting.





Do you *buy* glasses — as Grandma did?

Grandma used to get her spectacles from Ezra Barnes. The village folks knew Ezra. They trusted him to give better value than the wandering spectacle peddler or the big city mail-order house.

Ezra sold and repaired watches, clocks, jewelry and spectacles. Most of Ezra's time was spent at watch repairing, but he also kept a stock of ready-to-wear specs, from which Grandma selected, as best she could, a pair that seemed to fit.

The point is, *Ezra sold specs just as he did other commodities.* Professional eye care was

scarcely known in those trial-and-error days.

But today the professional services of examining, refracting, and prescribing and/or interpreting, fitting and servicing are the factors that establish your eye comfort and visual efficiency. Enlightened people know that these services cannot be bought in a package at a bargain counter.

If you buy spectacles today, instead of eye care, you are living in Grandma's time.

Spectacles are essential in many cases, but spectacles are never any better than the prescription which they interpret, and then only as

they are fitted to the needs of the individual.*

Beware of glasses advertised at a price. Seek the professional skill and services that your priceless sight demands. Select your Ophthalmologist, Optometrist, Ophthalmic Dispenser with the utmost care.

Glasses are important when needed, but the knowledge of the men who prescribe and/or fit them is vastly more important.

American Optical
COMPANY

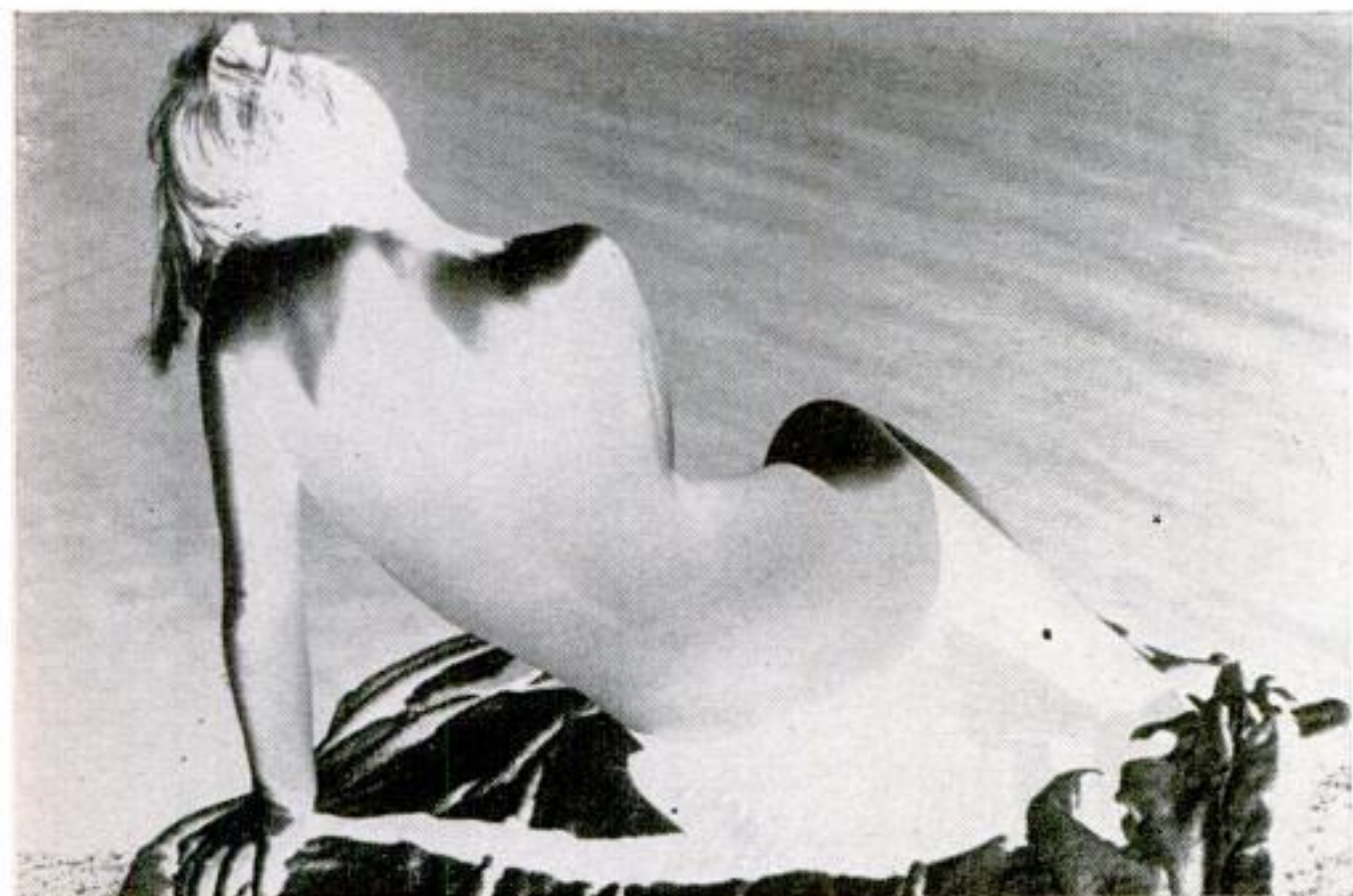
FOUNDED IN 1833—THE WORLD'S LARGEST SUPPLIERS TO THE OPHTHALMIC PROFESSIONS

Copyright, 1942, U. S. A., by American Optical Company

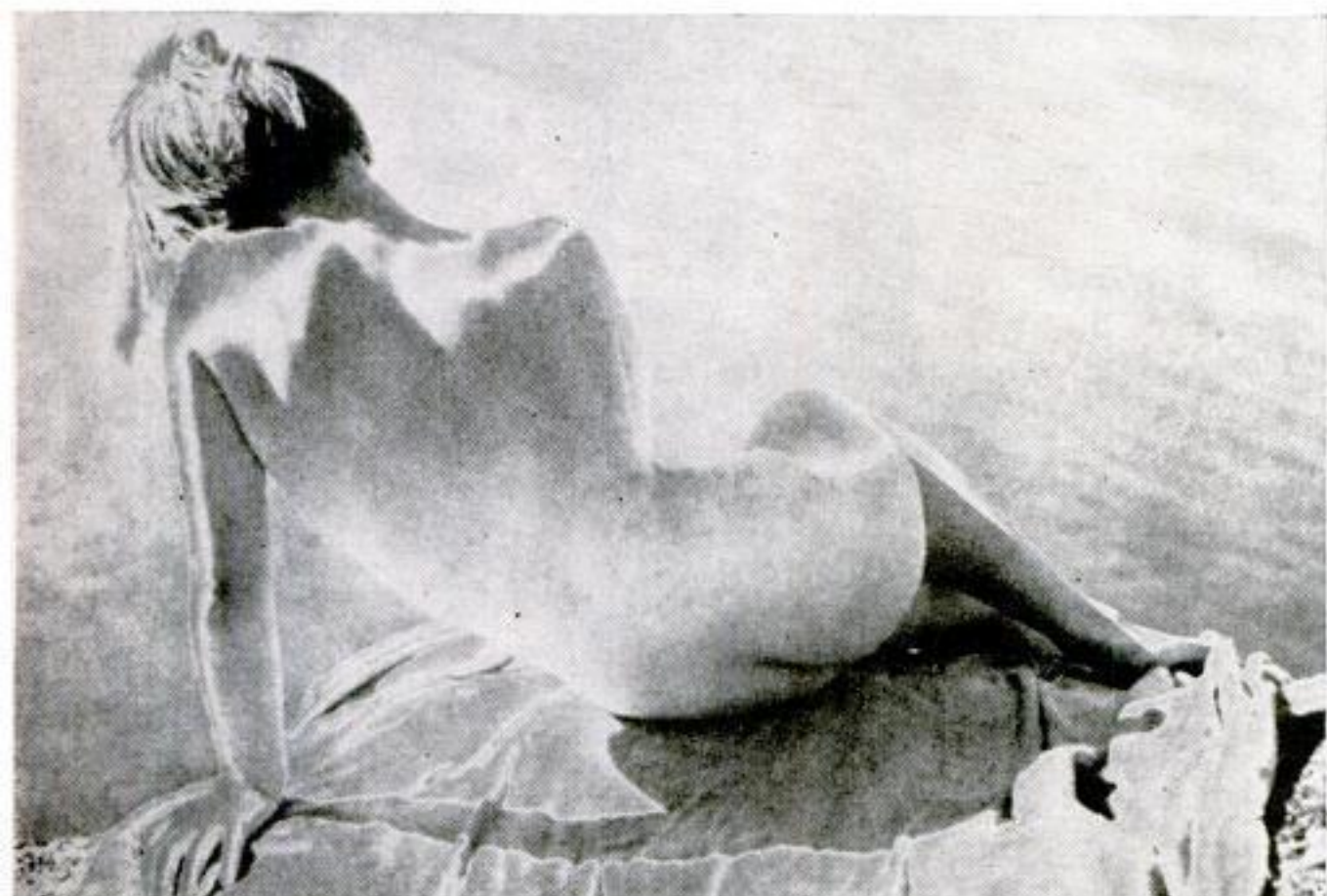
* From the AMERICAN Plan

SPEAKING OF PICTURES

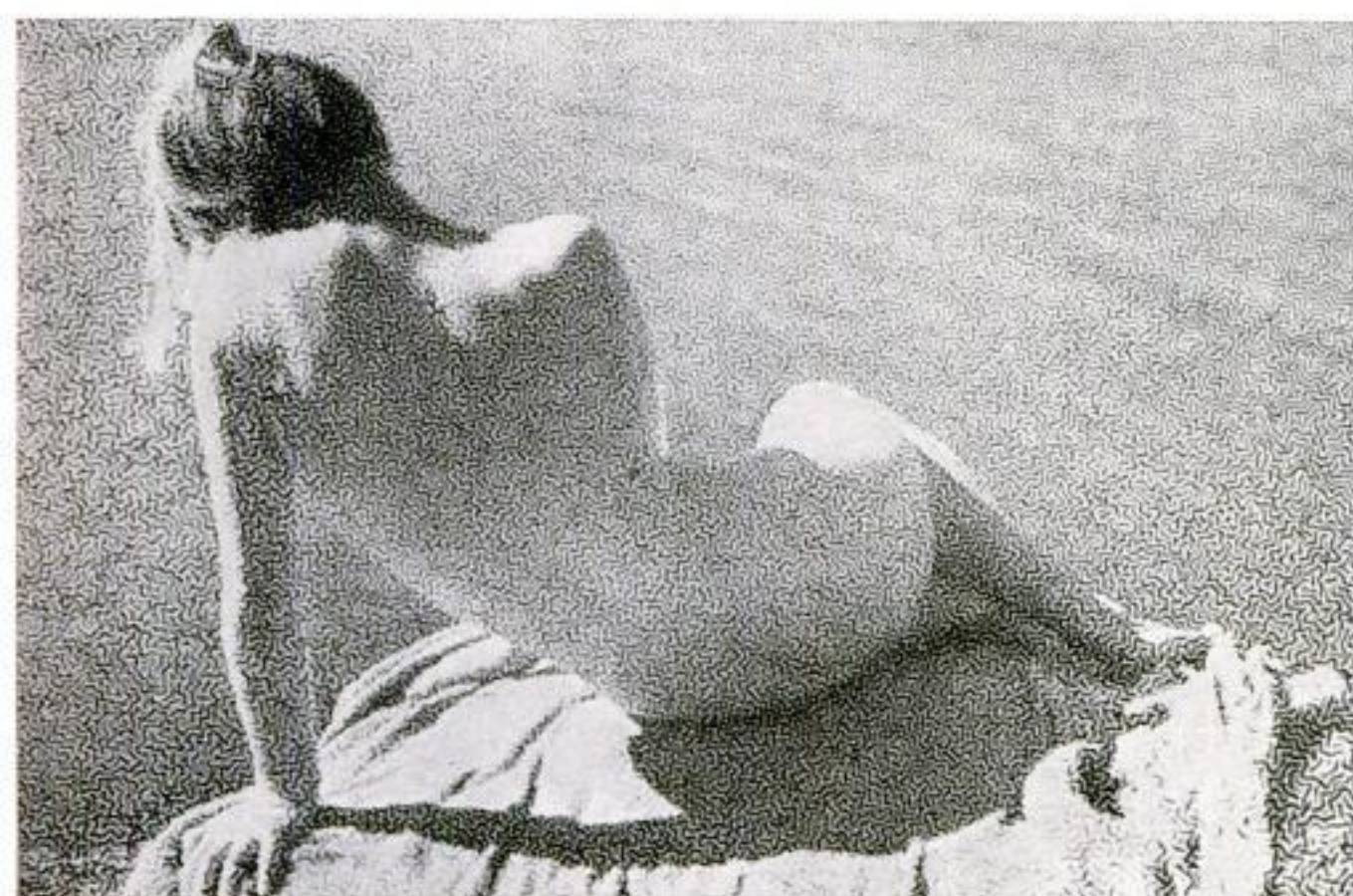
(continued)



THIS NEGATIVE IS FROM DIAPOSITIVE. BELOW: VARIATIONS OF TECHNIQUE



THIS SOLARIZATION MADE FROM NEGATIVE ALSO HAS POSITIVE QUALITIES

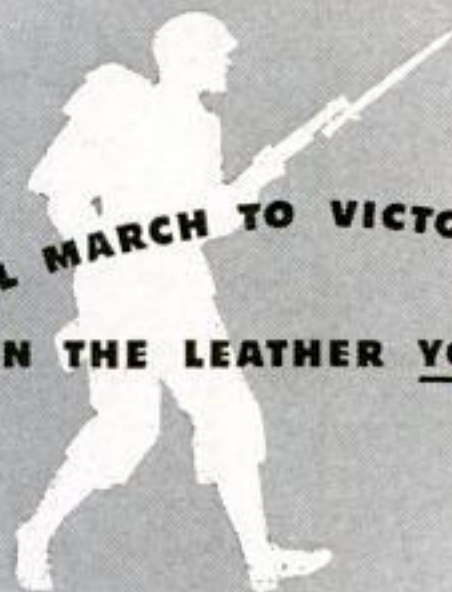


RETICULATED POSITIVE COMES FROM PUTTING NEGATIVE INTO WARM WATER



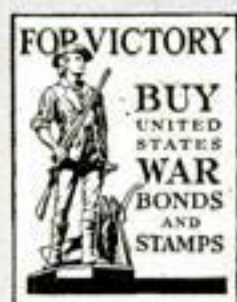
HIGHER-DEGREE RETICULATION RESULTS FROM A LONGER WATER IMMERSION

AMERICA WILL MARCH TO VICTORY
ON THE LEATHER YOU SAVE



Florsheim Quality is Sound Shoe Conservation

Conservation is nothing new to Florsheim; this business was built on the determination to give men more for their money—more in style, comfort, and wear—so their shoes would cost *less* in the long run. Today it's vitally necessary to save leather . . . and the best way we know to make shoes last longer is to buy better shoes.



The EXMORE, S-1074

The MILITARY, S-976

Most Styles
\$10.50 and \$11

Florsheim Shoes



THE FLORSHEIM SHOE COMPANY • CHICAGO • MAKERS OF FINE SHOES FOR MEN AND WOMEN



It's awful to have your own child fear you, but that's the way it was! Whenever I reached for that laxative bottle, Betty would scream and run away from me. She hated the taste of the stuff and it upset her something awful. It was just *too strong!*



Then I tried something else, but it was the same story. Betty made a scene every time I gave her a dose. To make matters worse, the medicine didn't seem to do her any good. I thought it would be easier on her, but...it was just *too mild!*



At last I found a happy solution to our laxative problem. My next-door neighbor suggested Ex-Lax. I gave some to Betty and she just loved its fine all-chocolate taste. And I was delighted to discover how smoothly Ex-Lax works...not too strong, not too mild—it's *just right!*

Treat the children to THE "HAPPY MEDIUM" LAXATIVE!

Ex-Lax is effective, all right—but effective in a *gentle* way. It won't weaken or upset the youngsters. It won't make them feel bad afterwards.

—it's not too strong!

Ex-Lax can be given to children with complete confidence. Although it looks and tastes like fine chocolate, its action is thorough and dependable.

—it's not too mild!

Ex-Lax is one laxative that avoids extremes. It strikes a Happy Medium! In other words...

—it's just right!

Naturally, like any effective medicine, Ex-Lax should be taken only as directed on the label.



10¢ & 25¢
at all
drug stores

LIFE'S REPORTS

THE NEBRASKA PLAN

Some plain citizens find a way to help lick Hitler

by RUSSELL W. DAVENPORT

Visitors to Omaha, Neb. this summer were treated to a strange sight. At supper, instead of suggesting the movies, someone would say, "Let's go down and see the scrap pile." The wondering guest would then be taken to the corner of Eleventh and Jackson Streets, near the center of town, where a huge pile of metal scrap was heaped on a city block belonging to the Union Pacific Railroad, spilling over into adjoining lots. It weighed more than 5,000,000 lb. It was composed of everything you could think of in the way of metal—old iron bathtubs, pans, baby carriages, stoves, metal parts, spare machinery, bars, engines, boilers. Every so often a big truck would drive up, dump some more, drive away. Citizens came on foot bearing battered treasures in their hands. Sometimes the treasures had tags on them, as for instance a lawn mower which bore the message, "To help mow 'em down." In a corner of the lot were 40 old pianos, and all evening Omaha's amateurs would bang away on the dingy keyboards right out in the middle of the city. It was a lot more thrilling than a movie or a night club. Because it was the U. S. really going to war.

That Omaha scrap pile made history. It was the first fruit of what has since become known as the Nebraska Plan, sponsored by newspaper publishers all over the country in a nationwide scrap campaign that is just now swinging into action. In three weeks, by means of this plan, the State of Nebraska collected 135,000,000 lb. of scrap, or a shade more than 103 lb. per capita. This achievement was entirely the result of the efforts of private citizens, acting independently of Washington and turning the heat on their local Federal authorities. And as such it is the most successful salvage campaign so far. It had obtained Donald Nelson's approval from the beginning. And even Lessing Rosenwald, humpty-dumpty head of WPB's Conservation Division, finally saw its merits and is now pushing it hard. The key to the Nebraska Plan is the local newspaper, so if you want to do a salvage job in your community get in touch with your leading publisher or editor.

Inspiration

The idea for the Nebraska Plan got its start in the brain, and heart, of Henry Doorly, the quiet, sure-footed publisher of the Omaha *World-Herald*. One hot night in July Mr. Doorly was sitting in his study to relax a few minutes before retiring. He had been talking to steel men and WPB salvage men about the scrap problem. Their ideas made him uneasy. Something was wrong. Gradually his mind sorted out the various doubts and difficulties and reached the very heart of the matter. The salvage of scrap, he thought, cannot be done with a mere "inspirational" advertising drive in newspapers, magazines or radio. Salvage is an intensely personal proposition. It involves some thinking and a lot of hard work on the part of every citizen. Of course everybody has a few obvious articles lying around the house to give or sell to a scrap collector. But the real scrap, the scrap that will lick Hitler and Hirohito, is hidden away in the closets, attics and cellars of America, half buried on the farms and half forgotten in factory sheds, laid aside in municipal basements and old abandoned enterprises. Only the owner of a property can know what salvageable metal he has on the premises, and even he can only find out by thinking about it, searching for it, maybe working hard to get it.

Moreover, Mr. Doorly thought, it wouldn't do just to have a few dozen salvage enthusiasts. Besides being personal, the scrap job must be done by everybody—literally everybody in the community. It was then that he had his inspiration. He was publisher of the biggest newspaper in the State. The Omaha *World-Herald* was the perfect instrument for launching such an experiment—not in its advertising pages but right in its news and editorial columns. During the ensuing campaign, it is important to note, the *World-Herald* did not accept a line of paid advertising on the scrap campaign. It ran two full-page ads, one from the Union Pacific Railroad and another from the

CONTINUED ON PAGE 14



1



2



3

We Can Tell You About Part 3

★ American Airlines is energetically engaged in "war work" that can be classified into three main parts. To tell you about parts *one* and *two* would reveal military information. But the part wherein *you* can participate we can tell you about. The *third* part of American's war activity is a vital necessity, because there is no substitute for air transportation in our war effort. We all know the pressing need to save travel *time* over the three million square miles of our nation. Therefore we have been Army directed to operate a safe and necessary air transportation system for the benefit of the war program first and for the people of America. Persons on war missions whose travel is most essential are entitled to priority. We shall continue to serve everybody to the best of

our ability and bespeak your cooperation, which includes asking you to make your reservations *as far ahead* as possible. We wish to thank those of our passengers who have exchanged seats with priority passengers, and accepted a different flight. That *is* patriotic. Anything that American and our passengers can do to keep the priority system working effectively is to our own and our country's ultimate good. American Airlines directly connects Canada, United States and Mexico . . . a highway between neighbors and allies of great military importance and a link in the solidarity of the hemisphere.

*Call your American Airlines office or any principal
Travel Agent for information and reservations.*

AMERICAN AIRLINES *Inc.*
ROUTE OF THE FLAGSHIPS

Copyrighted material



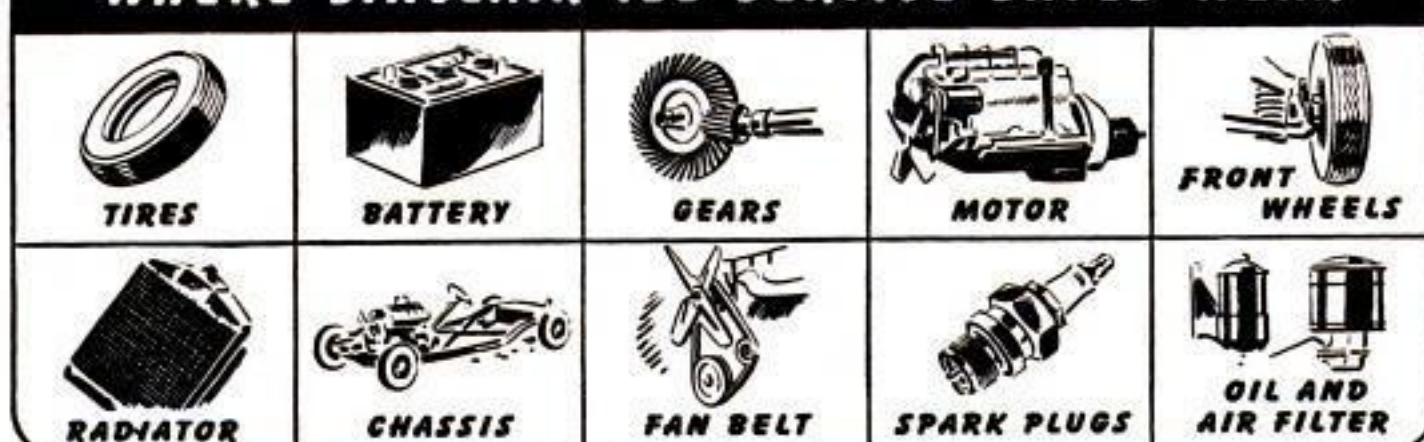
CHEER UP, Lady. While it's true you'll probably have to walk when your present car gives out, there's a way to help put off that day.

Simply put your car in the hands of a Sinclair Dealer for regular servicing. Sinclair Dealers have developed a special Sinclair-ize service that makes cars last longer.

Every day Sinclair lubricants are saving wear on vital transportation equipment used by American railroads, airlines, and in many cases on equipment used by the U. S. Army.

Profit by their experience — rely on Sinclair lubricants — and have a Sinclair Dealer Sinclair-ize your car now.

WHERE SINCLAIR-IZE SERVICE SAVES WEAR



SAVE WEAR WITH
SINCLAIR

CARE FOR YOUR CAR — FOR YOUR COUNTRY

LIFE'S REPORTS

(continued)

Burlington Lines, explaining certain features of the campaign, to which these railroads were the biggest scrap contributors. But it refused to accept any money for even those ads. At the end of the campaign the *World-Herald* was out of pocket about \$9,000.

No stuffed shirts

Mr. Doorly's idea took fire right away. A week was supposed to elapse between the radio announcement on July 12 and the beginning of the campaign on July 19. But three minutes after Mr. Doorly left the microphone at his preliminary announcement, Mrs. Helen Dondorf, an Omaha housewife, called the newspaper to report an abandoned pile of steel rails that she knew about. The very next night, led by President W. M. Jeffers (since chosen by Donald Nelson to take over the rubber crisis), the Union Pacific Railroad swung into action with a mammoth scrap rally to which everyone was supposed to bring a contribution. Everyone did. Piled in the street this first scrap stretched for half a block outside the auditorium doors.

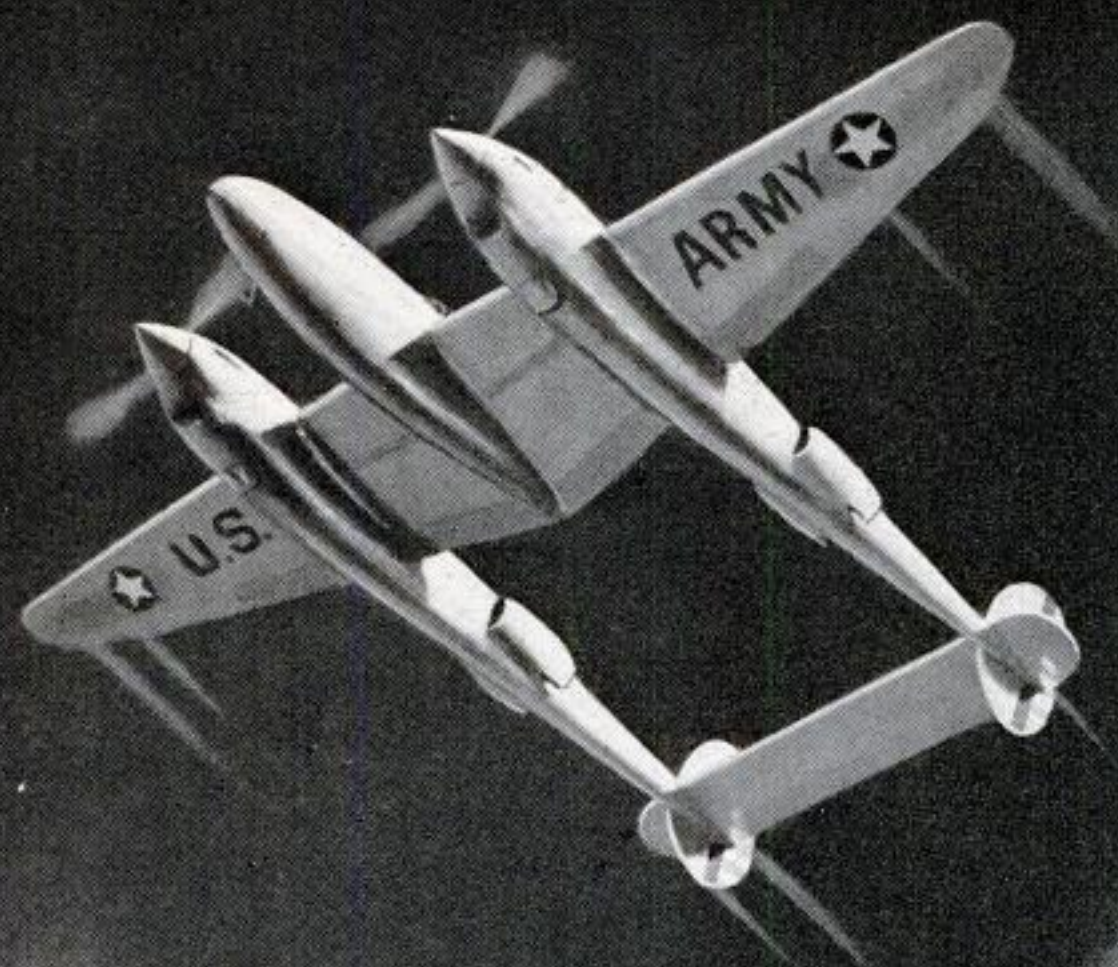
No stuffed shirts were asked to head up the Nebraska drive. Mr. Doorly set it up on a functional basis, using the people and the business enterprises that were best adapted to the work. In general charge of the campaign were J. M. Harding, hardheaded assistant publisher of the *World-Herald*, and George Grimes, the popular managing editor. They opened a little office with a couple of telephones. The local Advertising Selling League loaned its paid secretary, Fred S. Larkin Jr., as general coordinator. Sticking to the functional idea, they chose the city garbage collector, Harold Pollack, for the job of actually collecting the scrap. And as the man best fitted to keep the campaign supplied with trucks they chose Charles Weir, secretary to the police commissioner, who knew all the truck-fleet operators from having talked to them about safety campaigns. Mr. Weir did such a good selling job on the fleet operators that the campaign had an average of 40 trucks at its disposal every day free of charge. In the middle of the drive the Truck Drivers' Union asked that it be given a chance to donate its services too. So in addition to the regular daily schedule a twilight pickup was arranged, to which the drivers gave their time free. The tonnage collected in this twilight pick-up far exceeded the daylight tonnage.

The fundamental plan of the campaign was exceedingly simple. First of all, the *World-Herald* offered \$2,000 in prizes (in war bonds). The county with the highest per capita collection was to receive \$1,000 and the second highest, \$500. There were also prizes for the best business firm in the State, the best individual and the top junior organization. The prizes seemed important at first, but as the campaign developed, the great American competitive spirit ran away with the show, irrespective of prizes. A careful plan for weighing the scrap gave everybody a chance to get into the competition. In the end, of course, the city of Omaha fell far behind some of the outlying counties, where old farm machinery, bridges, abandoned factories and railroad trackage swelled the totals.

The scrap could be either donated to the drive or sold. The managers did not care—they were concerned only with getting it collected and moved in the most efficient way. The donated scrap was picked up by volunteer trucks. If, however, you preferred to sell your scrap it was necessary to get a junk dealer to take it. The junk dealers, without whom the campaign could not have been made, issued receipts for the scrap they bought and you turned in your receipt to the managers of the drive. You were thus "credited" with your scrap whether you donated or sold it. Generally speaking, householders and persons with relatively small quantities of scrap preferred to donate it to the volunteer organizations, which then sold it through commercial channels for their own account. Indeed, Nebraska women discovered that a scrap drive provides a wonderful opportunity for raising money for a charity or welfare organization. On the other hand, people with big heavy items usually sold them not only because the sum involved was apt to be substantial, but because special equipment was often needed to break them down and move them. In the outstate counties much more tonnage was sold than in Omaha, and many ingenious devices were invented for facilitating its sale. It is estimated that the donated scrap from the entire State was worth about \$100,000.

When the figures were all added up, Grant County, the State's fourth smallest with a population of only 1,327, turned out to be the

CONTINUED ON PAGE 16



What's all this talk about Altitude?

Aircraft have missions to perform at *various* altitudes.

All military aircraft are designed to give their best performance at some *SPECIFIC* altitude.

If it's *WAY UP* you are talking about, up as high as a fighting plane of any nation has ever sought or met an enemy, that's as much *HOME* as any other level to an Allison engine.

For the Allison engine, combined with the

turbo-supercharger, is the power that makes the Lockheed "Lightning" (shown above) the world leader at the highest altitudes at which planes fight.

And when comparing American fighting planes with foreign competition, don't forget that the American ships carry more weight because of their superior protective armor, heavier fire power, longer range and better instrumentation.

LIQUID-COOLED AIRCRAFT ENGINES

Allison

DIVISION OF

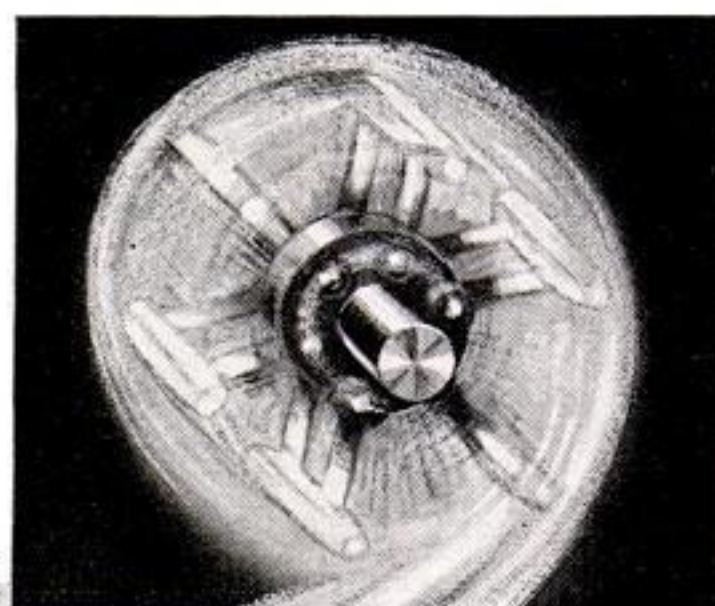




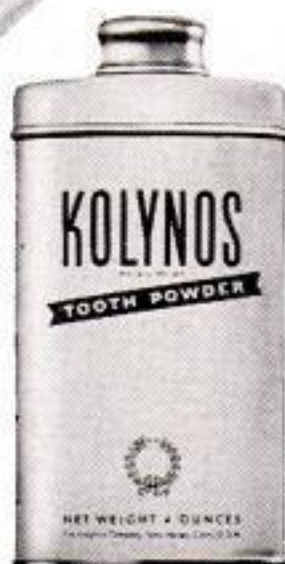
AT LAST! A DENTIFRICE
THAT'S SOFTER, GENTLER...SAFER

The NEW Micro-Pulverized KOLYNOS TOOTH POWDER

Ground and re-ground until it's super-fine as an expensive face powder — Yes, the Micro-Pulverizer (shown at right) makes possible a superfine dentifrice. It pulverizes tangy-flavored Kolynos until it's light as thistle-down! And as your own dentist may have told you, a powder soft and fine as this is sure to be safe...gentle...really good to your teeth!



MY TEETH
ARE CLEANER,
BRIGHTER, TOO!



Try Kolynos Tooth Powder at our risk. You must agree that it does a better job of cleaning your teeth... refreshing your mouth... or you get **DOUBLE YOUR MONEY BACK!**

That's because the new Kolynos Tooth Powder combines the foaming action of paste with the cleansing action of powder. Its bubbly foam gets in the crevices...helps the toothbrush whisk away those hidden food particles that often cause discoloration and decay. Cleans teeth evenly...thoroughly...leaves no gritty residue. What's more, the new Kolynos has a tangy, bracing flavor that's completely new and different. It's wonderfully refreshing...makes your mouth feel *really clean*...lingers on after each brushing.

KOLYNOS TOOTH POWDER

IT'S GOOD TO YOUR TEETH BECAUSE IT'S SUPERFINE!

LIFE'S REPORTS

(continued)

winner. This little county rolled up the amazing total of 846,559 lb. of scrap, or 638 lb. per capita. Grant's total was helped a lot by the fact that the individual winner, Vernon Moran, lived in Hyannis, which is the Grant County seat. Mr. Moran, a section hand on the Burlington railroad, garnered no less than 96,970 lb. of scrap on his own. The business winner was Boyd's Dinette in Norfolk, whose proprietor, Boyd Worley, hired two women to run the dinette while he went to work to collect 81,000 lb. of scrap. The junior prize went to the Nebraska City chapter of the Future Farmers of America with 445,000 lb.

"We may need it sometime"

At first the campaign managers were afraid they would run out of cute ideas for stimulating the public interest in scrap, but as the drive progressed the problem was how to keep up with the ideas and news stories that were pouring in. Most of the *World-Herald* reportorial staff was out getting scrap stories, and photographers did the rounds with the trucks to get shots of every dramatic or important contribution. Thus the campaign generated its own publicity.

It was impossible to get enough trucks to clean up the city all at once, so city and suburbs were divided into 16 districts and these were rotated. Each day the *World-Herald* printed a map of the district that the trucks would visit on the following day, designating the particular area that would be salvaged. The citizens were thus given 24-hour notice. Then Red Cross block chairmen, Boy Scouts and Girl Scouts called at every home in the designated area, warning each householder that the trucks would be around the next day. During that same evening sound trucks would tour the area, announcing the same thing. By the time the trucks arrived, most citizens were ready with scrap piled outside their houses. Just to make sure, however, on the day after the scheduled collection, the Camp Fire Girls called at every home to see if any had been missed. At the very end of

CONTINUED ON PAGE 18

Helen Harper
SWEATERS

At fine stores everywhere
2.50 to 8.50

Write for Helen Harper's 16-page booklet L2
United States: 1372 BROADWAY, N. Y. C.
Canada: 4052 ST. LAWRENCE BLVD., MONTREAL
In Argentina, Santa Fe 1391, Buenos Aires

ORANGE

flavor
at its best!



FAMOUS
FOR FRUIT
FLAVOR

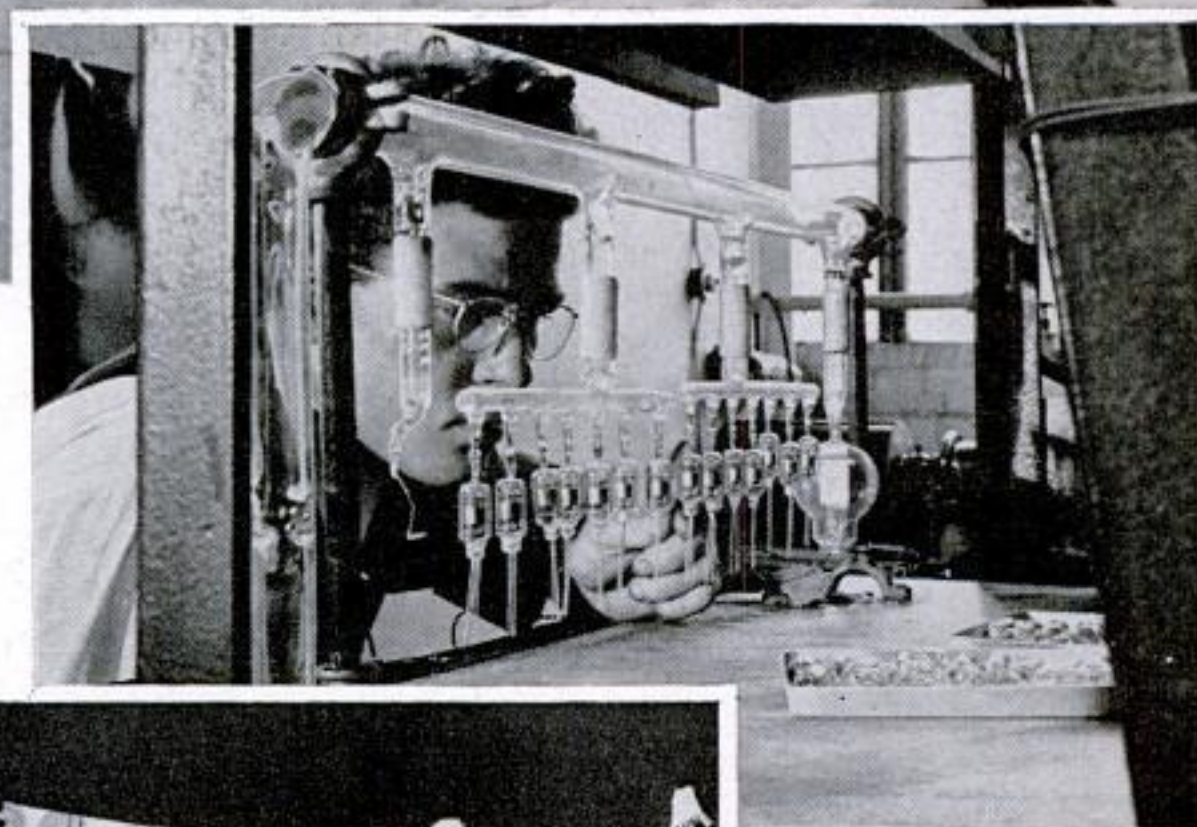


THOUSANDS of men who have hesitated to offer their services to the country because they were so severely handicapped by hearing troubles will find fresh inspiration in Captain C . . . *, of the U. S. Army. Graduating from West Point in 1918, he served with the 27th Infantry in Siberia, where an attack of typhus seriously damaged his hearing. Transfer to the Field Artillery in 1924, completed the job typhus had started and two years later, Captain C . . . * was retired because of deafness.

It was a hard blow to a youngster still in his twenties, but facing facts with the practicality the Army teaches, he realized that if he expected to get along with people in civilian life, he had to be able to hear them. So he looked for scientific help and got a Sonotone. Without his Sonotone, he couldn't hear speech, but with the improved hearing it gave him, he took up accountancy, became a successful C. P. A. in New York, and when, after Pearl Harbor, he applied for active service, he was assigned a month later to the Treasurer's office at West Point.

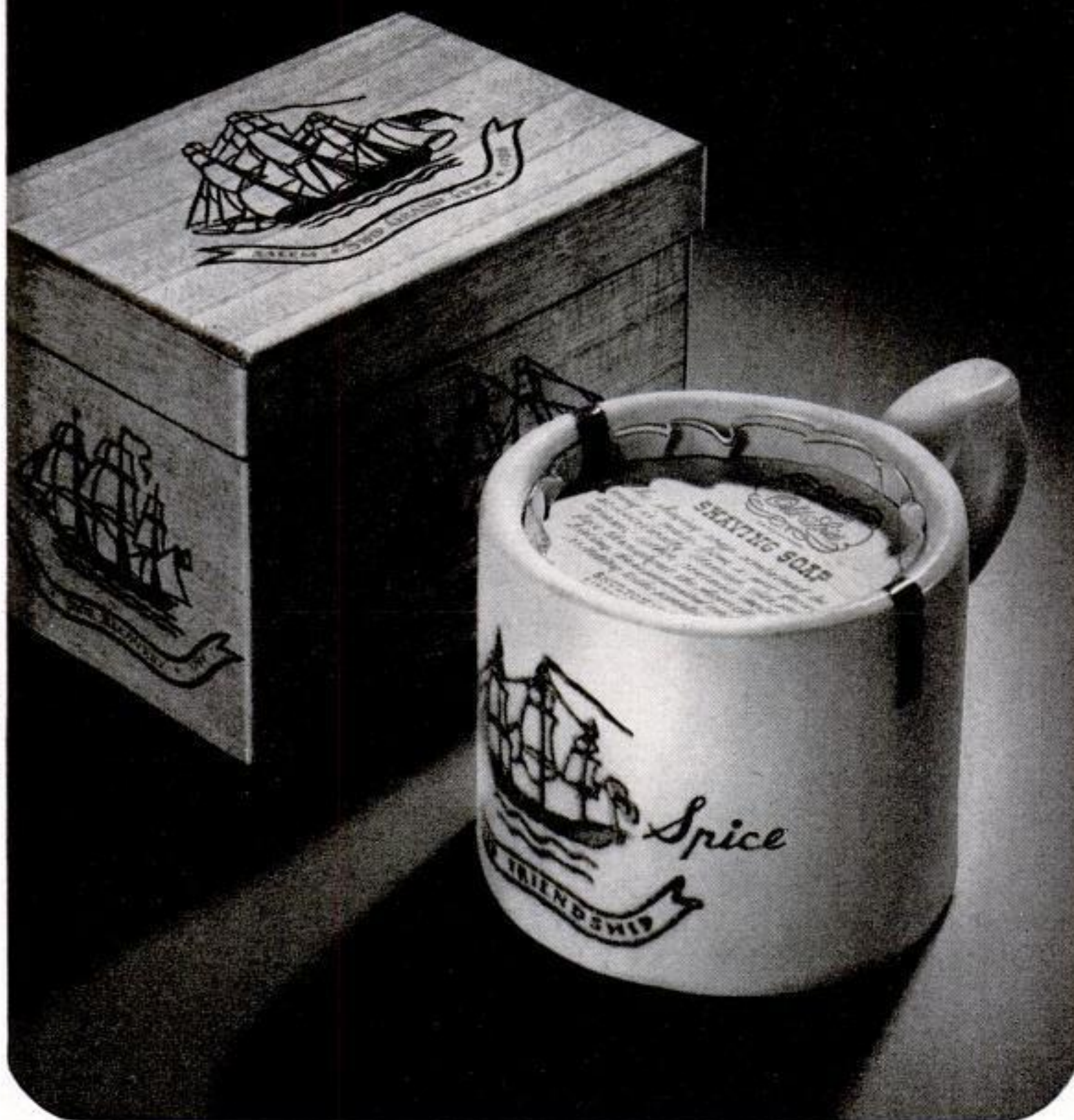
This cross-section of Captain C . . . *'s* life, high spots two vital facts . . . first, the importance of seeking competent medical and scientific help in the early stage of hearing trouble . . . and second the remarkable scientific progress in the design and fitting of modern audicles in the 12 years since Sonotone launched the world's most intensive hearing aid research. Today, 95% of people's hearing troubles can be helped. And anybody in the United States can get full information on the help a Sonotone can give by telephoning the nearest Sonotone office.

**Name omitted in accordance with medical principles.*



For information on Sonotone telephone or write any of the 139 Sonotone offices in the United States, or write Sonotone, Elmsford, N. Y. (In Canada, address 225 Yonge Street, Toronto.)

**MORE PRACTICAL
THAN EVER**



EARLY AMERICAN
Old Spice*
SHAVE MUG \$1.00

The Old Spice Shave Mug itself contains an eight to twelve months' supply of the famous Old Spice Shave Soap. Now you can keep the mug in constant use—always brimful of shaving pleasure—by simply inserting an Old Spice Refill, containing the same fine quality, free-lathering soap. Join the cheerful shavers—use Old Spice for more shaving comfort. Also Old Spice After-Shave Lotion, Talcum, Bath Soap and Cologne, available individually or in sets. Each a Shulton original.

**New! Shave Mug Refill
8 to 12 Months' Supply
of Old Spice Shave Soap**

65¢



*Trade Mark Reg. U.S. Pat. Off. • SHULTON, INC. • ROCKEFELLER CENTER • 630 Fifth Ave., N.Y.

**LIFE'S
REPORTS**

(continued).

the campaign the Office of Civilian Defense called every telephone in the city to ask if there was any scrap remaining.

The great difficulty that had to be surmounted was the idea, cherished by every property holder, that with one cursory glance around his premises he could find all his scrap and get the job over with. Invariably it was shown that with a little more care he could discover other metal articles that he was delighted to give. Heads of business firms began by turning the problem over to subordinates. But always, when pressed to make a personal investigation, they found lots of old metal that could be dispensed with. Thus the president of the Harding Creamery reported that all his scrap had been turned in. Asked to look again personally, he discovered 40,000 lb. of old stuff which junior executives were holding in case "we may need it sometime." The *World-Herald* itself had been storing some old press parts, weighing, as it turned out, about nine tons. The press foreman was reluctant to part with them, but when asked how long he had had them without needing them he guessed it was about 30 years. So they were ordered onto the junk pile. A good rule of thumb was that if you hadn't used an old emergency part for a year you had better send it to Hitler.

To get the big stuff out it was necessary to set up a special projects division. This was handled personally by Coordinator Larkin and was one of the most important activities of the campaign. To salvage heavy machinery, abandoned factories and the like, it was not only necessary to do a special selling job on the owner but also to provide special equipment and skill for tearing down and carting away. Cutting tools and oxyacetylene torches were borrowed from local welding companies. Heavy trucks with winches were borrowed from the Nebraska Power Co. and the Omaha and Council Bluffs Street Railway Co. Piano movers moved pianos to the junk pile free of charge and the gas company disconnected old stoves for nothing. In lots of cases the items were so big that they justified many hours

CONTINUED ON PAGE 20



**RELIEVE
HEADACHES
NEURALGIA &
MUSCULAR ACHES
WITH "BC"
QUICK
ACTING**



"BC" contains not just one but several effective ingredients that dissolve quickly and act in a hurry. Use only as directed on the package.
10¢ and 25¢

**PARAGON PETE SAYS:
GET A HEAD START
IN STYLE WITH
A NEW PARAGON**



**ALL
CLEAR
\$450**

Here's a hat that just naturally goes right to your head... it's so downright comfortable to wear and so smartly styled. It has a jaunty three-tone bottom striped band and four rows of stitching on the brim. The "All Clear" is silk lined with Pliofilm Tip.

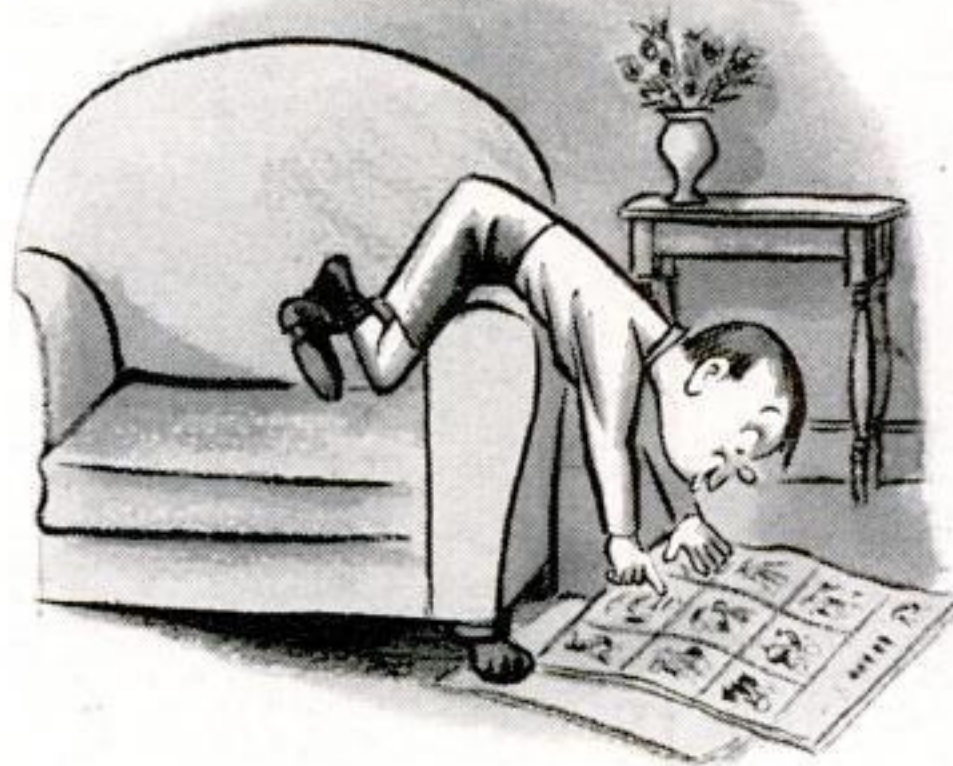
Other Paragons \$3.95 to \$6.50
Featured in better stores everywhere

See Your
Nearest
Dealer

Paragon
314-316 S. Franklin St. CHICAGO, ILL.

KIDS WILL BE KIDS

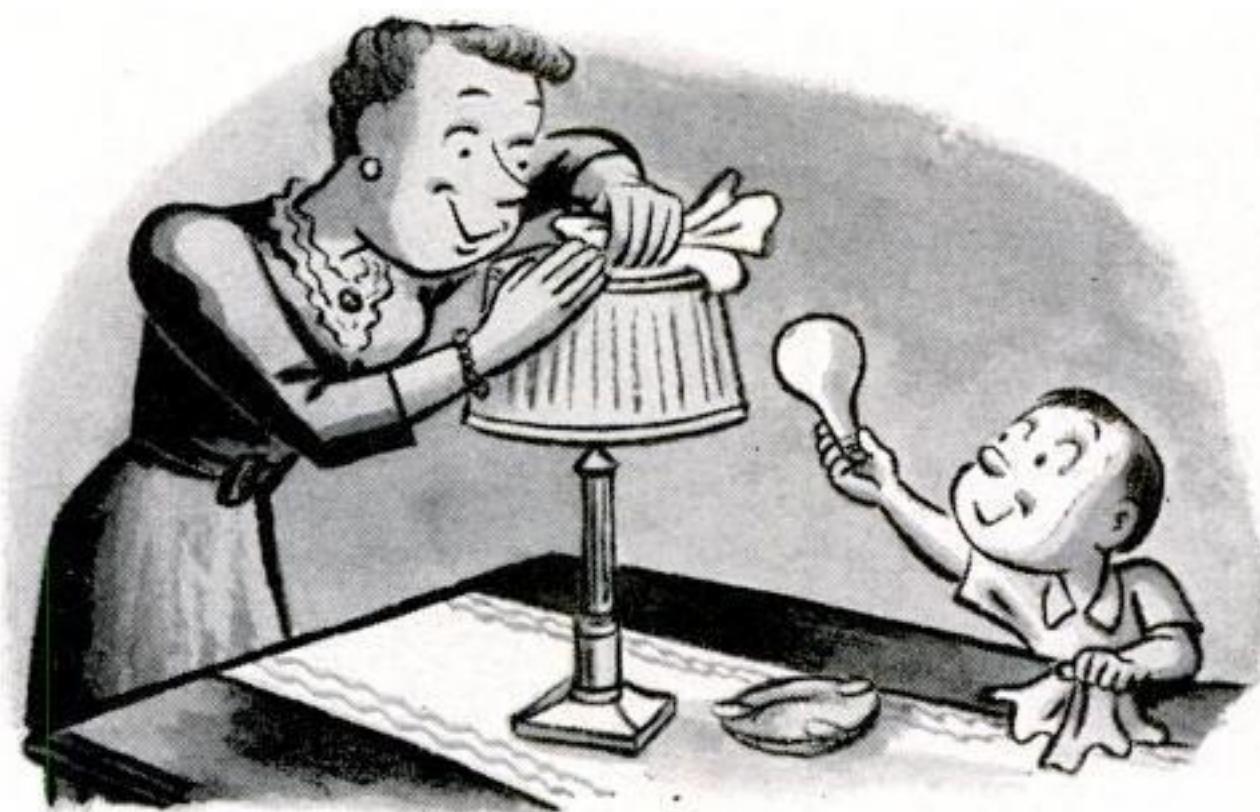
With so much to see and read these days, they're apt to strain their eyes more than ever. General Electric offers these simple suggestions to help you guard *your* family's eyes and get the most out of your lighting.



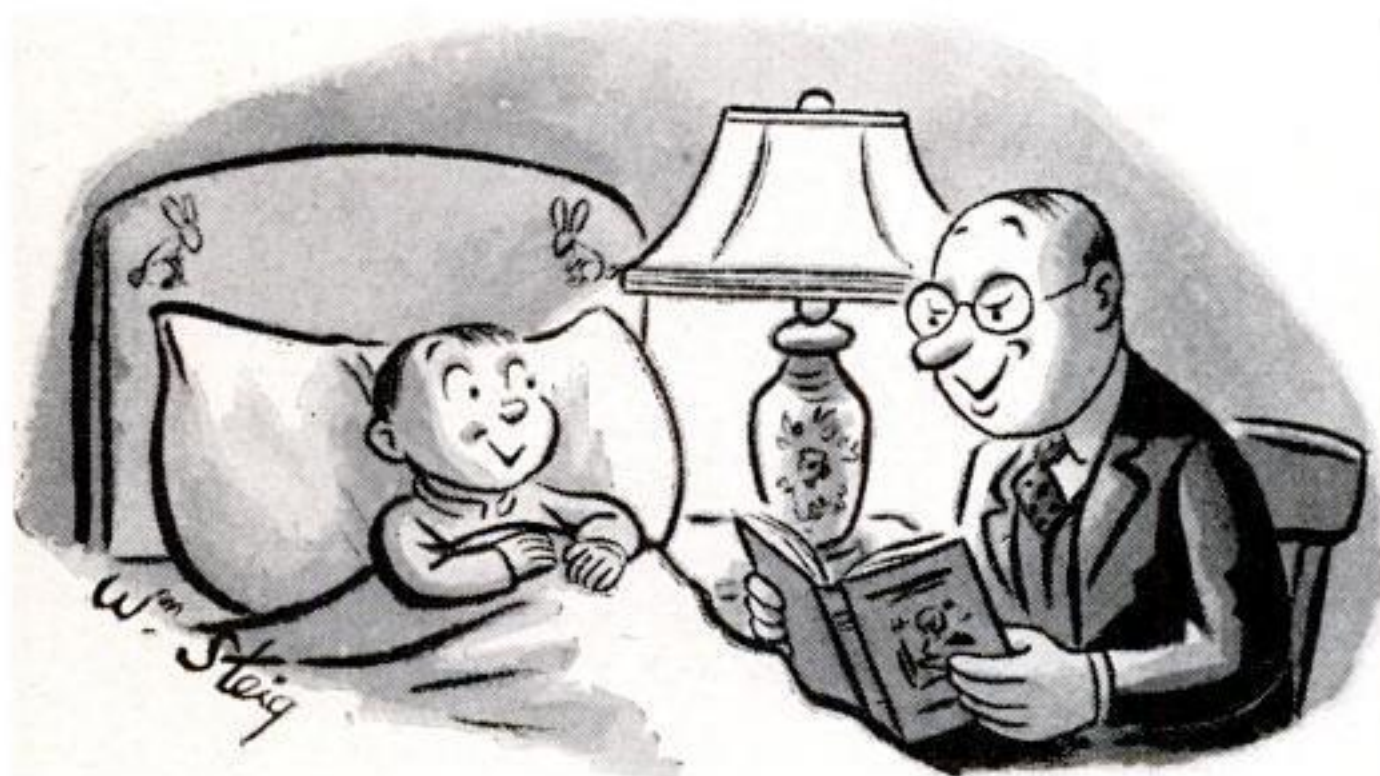
- 1. WATCH THEIR LIGHTING!** Even if there were a reading lamp in this picture, the bulb would be too far away from the floor to give Johnny the light he needs. When your kids read or study, see that they're near a good reading lamp... in some other position than this!



- 2. HAVE THEIR EYES EXAMINED** regularly by a competent eye-sight specialist. One out of five children in school, two out of five in college, have poor eyesight. And, remember, if your child wears glasses, that defective eyes need good light even more than normal eyes.



- 3. KEEP BULBS AND SHADES CLEAN!** G-E scientists say you can get as much as 50% more light from a reading lamp just by keeping shades, bulbs and reflectors free from dust! Wipe bulbs with a damp cloth. If shades are dark inside, clean them or replace with white-lined shades that reflect light instead of absorbing it.



- 4. WATCH YOUR OWN EYES TOO!** Our eyes get worse as we get older... not better. Whether you're reading a bedtime story or a report from the office, make sure your lamp has the right size G-E bulb. You can't go to work tomorrow fresh for any important job... unless you protect your eyes tonight!



- 5. BUY CAREFULLY!** Electricity and eyesight are both vital in the war effort. Use them wisely. When you read, work or study, have enough light to guard against eyestrain, but don't waste it. When you buy bulbs be sure they are the right size, and look for the G-E monogram on each bulb. *They're made to stay brighter longer!*

G-E MAZDA LAMPS

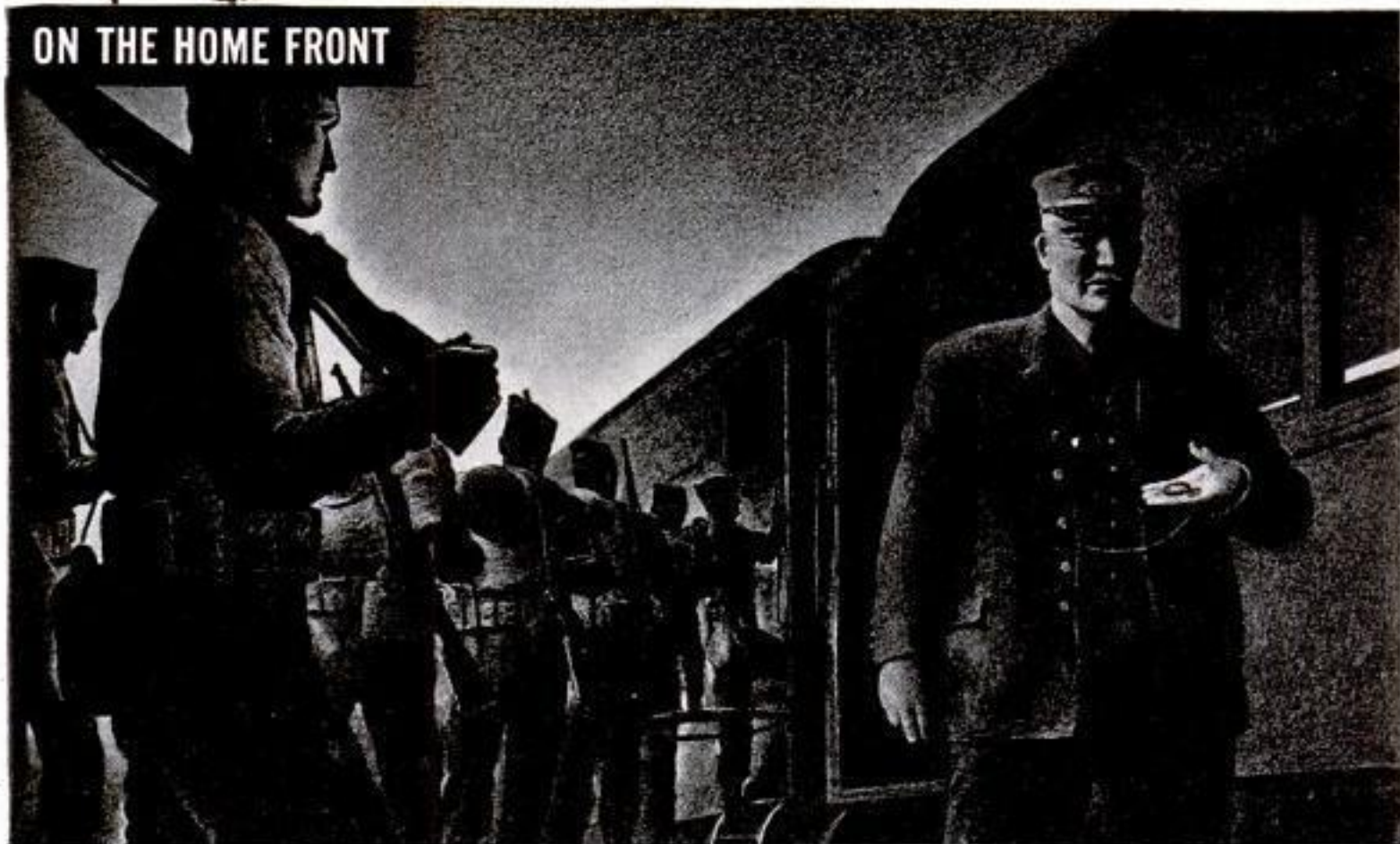
GENERAL  ELECTRIC

ON THE WAR FRONT

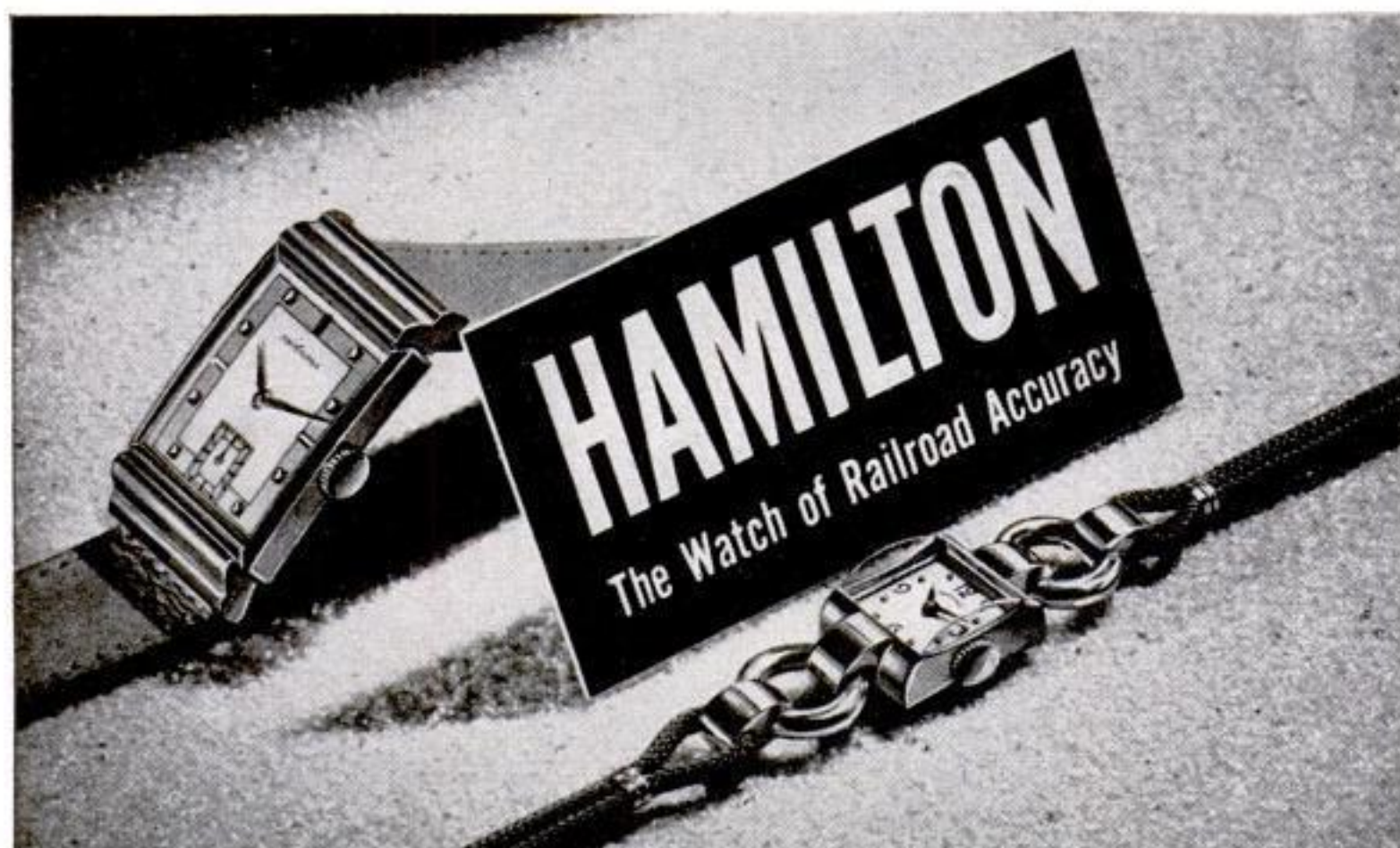


America's Pacific Fleet, America's Atlantic Fleet, America's fighting ships on the seven seas, depend for their navigation on the most precise portable timing device known—the ship's chronometer. From it the ship's officers and men set their watches—on it depends the accuracy of the ship's navigation. Before the war, chronometers were always built in Europe. Today Hamilton is proud it has been drafted to make chronometers of great precision for America's ships.

ON THE HOME FRONT



Troops that pass in the night are one reason for the tremendous speedup in activity on U. S. railroads. Railroads are shifting men from one road to another, sharing equipment, doing a magnificent job. More than ever, trains depend, *lives* depend on the accuracy of railroad watches. More than ever, railroads insist on constant time inspection. And more than ever, a railroad man likes to be ready for inspection with a precision-accurate, *railroad-accurate* Hamilton!



Hamilton's major effort now is going into the war program. But there are Hamiltons still available. And Hamilton's long experience in building watches for railroad men and precision instruments for the government insures the greatest possible accuracy in every Hamilton Watch. Precious metal cases (except military watches), 17 jewels or more. Styles for men and women. Hamilton Watch Company, 2102 Columbia Avenue, Lancaster, Pa.

COPR. 1942. BY HAMILTON WATCH CO.

LIFE'S REPORTS

(continued)

of special planning and supervision. Biggest single item was Illinois Central's stretch of abandoned trackage in East Omaha, weighing 537 tons.

The outstate campaign

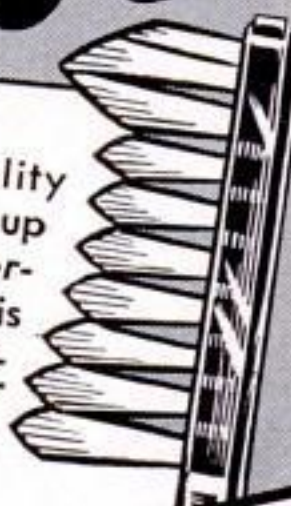
The city drive was a success, producing an average of about 90 lb. of scrap per capita. But of necessity it lacked some of the color and drama of the outstate drive. Here the inter-county competition reached a fever pitch and with true American inventiveness the "impossible" became the commonplace. Each of the counties had a salvage committee and these were asked to designate some charity to which the prize money would be given if the county won. Collection totals were assembled daily in county seats and standings published by the *World-Herald*, like major-league baseball standings. The race for leadership took on all the enthusiasm of a Big Ten conference championship.

The man in charge of the gring outstate circus was Frederick Ware, sports editor of the Omaha *World-Herald*, chosen because of his wide acquaintance in every town. Mrs. George Grimes, wife of the *World-Herald* managing editor, set up a women's organization that blanketed the State. Competitions got going between church women's auxiliaries, Parent-Teacher Associations, home-extension project clubs, patriotic organizations. U. S. Department of Agriculture officials, AAA chairmen and county agents talked to farmers. Planes were used to "bomb" farm areas with printed scrap appeals and to locate scrap piles.

It was the peak of harvest time and the farmers were already short handed. So the businessmen in small towns piled into trucks and went out to load the farmers' scrap for them. In some cases the businessmen even went out to help with the harvest and were "paid" for their labor with scrap from the farmer's junk pile. Churches held "Scrap Sundays" when the congregations rode to church on piles of scrap which they donated. Every movie theater in the State gave at least one scrap matinee at which the sole admission price was a scrap-metal contribution.

GIANT VALUE

This famous quality brush has not gone up in price. At yesterday's low price, it is easily today's "Biggest Tooth Brush Value."



Pro-phy-lac-tic
NYLON TOOTH BRUSH

STILL
-Only 23¢

Perfect!
FOR DAYTIME AND EVENING

Lucille Ball
RKO STAR

Necklaces,
matching earrings
and bracelets . . .
at better jewelers

**Deltah
Pearls***

WORLD'S FINEST REPRODUCTIONS*

L. Heller and Son, Inc., Fifth Avenue, New York



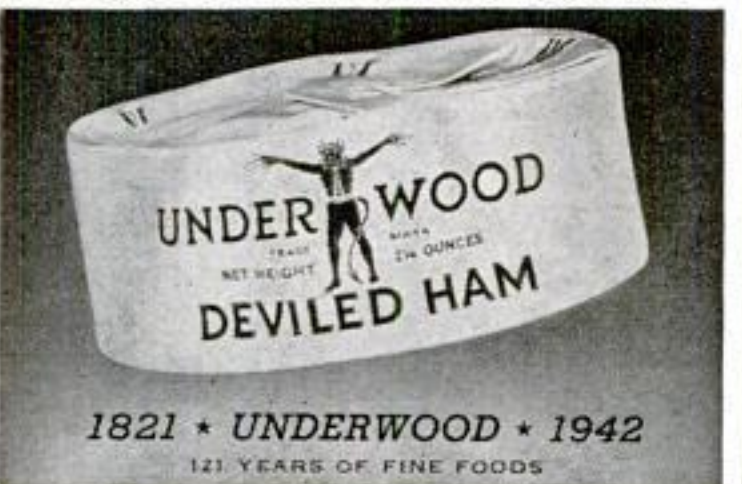
SUSPENSE is natural when something new has been added to hubby's lunch pail. But if it's delicious Underwood Deviled Ham sandwiches — lady, you needn't worry!



DEFENSE jobs mean big appetites — and big appetites mean Underwood's. It's all fine ham, temptingly seasoned.



IMMENSE! That's what everyone says! Try Underwood Deviled Ham for parties, lunches, snacks, in daily menus. Whenever you do, it's love and kisses for the Mrs.!



Write for the **FREE** "Fine Foods" booklet containing dozens of recipes you ought to have. Wm. Underwood Co., 463 Walnut Street, Watertown, Massachusetts.

LIFE'S REPORTS

(continued)

There were baseball games, to which the ticket was a piece of scrap. And on the last Saturday of the campaign the Governor declared a farm scrap holiday.

Typical of the ingenuity shown outstate was the achievement of the town of Holdrege, Phelps County seat, population 3,300. The county salvage chairman is R. C. Brown, who owns the local department store. In order to speed the flow of scrap Mr. Brown and his friend Nels Kronquest, an implement dealer, got together with the Chamber of Commerce to form the Non-Profit Junk Co., to buy scrap from the citizens of the county and then resell it on the market. In order to be sure that Phelps County would make a good record, the Non-Profit Junk Co. publicly bid \$10 a ton, or about \$1.50 more than the market price. J. W. Titus, president of the First National Bank of Holdrege, agreed to finance the company's stratospheric operations and advanced a loan of \$500. This was supposed to be a good starter. But the very first day that the farmers got organized they hauled in 50 tons of scrap which took the entire \$500. That same evening 150 volunteer workers went out in 66 trucks and came back to town with 75 tons more, worth \$750. And this was only the beginning. At the end of the campaign the Non-Profit Junk Co., aptly named, owed Banker Titus \$10,200.

What happened then was a tribute to the kind of people that Hitler will never lick. Had the Non-Profit Junk Co. sold its scrap at the market price it would have lost \$1.50 a ton, or more than \$1,500 altogether, a sum which Messrs. Brown, Kronquest, et al, could ill afford. Inquiry, however, revealed that the market price was quoted for run-of-the-mill, or unsorted scrap. If the scrap were sorted into grades a higher average price could be obtained. So, ever since the drive, the Holdrege scrap volunteers have stayed on the job, giving all their spare time to sort the big pile in Kronquest's display yard. And the resourceful citizens have found enough high-grade scrap to average up the price so that Non-Profit Junk Co. will just about break even.

That's one way to lick Hitler.



When she puts *her* foot down—things happen! Mother and daughter alike, she saves the tin, the fats, the scrap to whip the Axis! In her pretty Happy Home frock, she's a vision for any two-fisted fighting Yankee! She knows style, and she knows value. She selects fresh, practical Happy Home frocks as the answer for shopping, playing and housework. And Happy Home frocks are *hers* completely—in fade-proof fabrics; in an array of colors and patterns. At better wash dress departments everywhere.

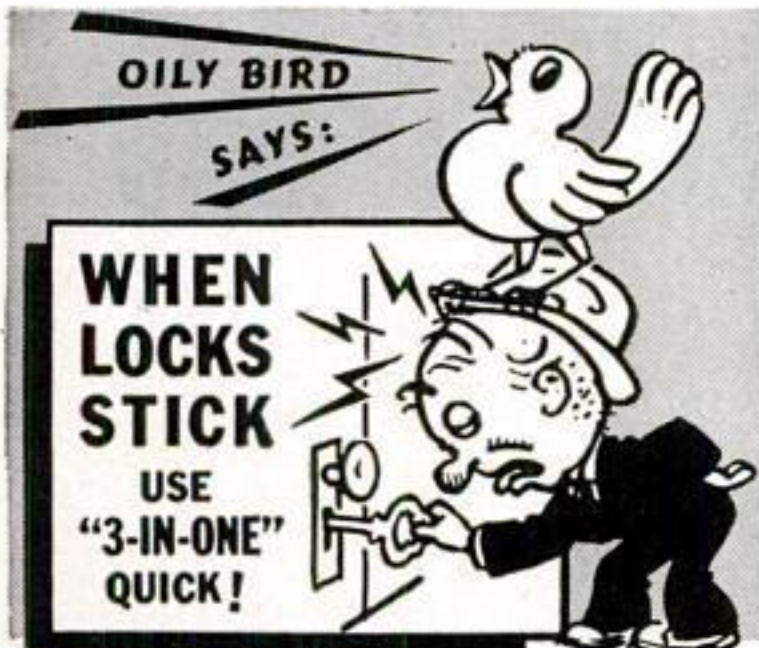
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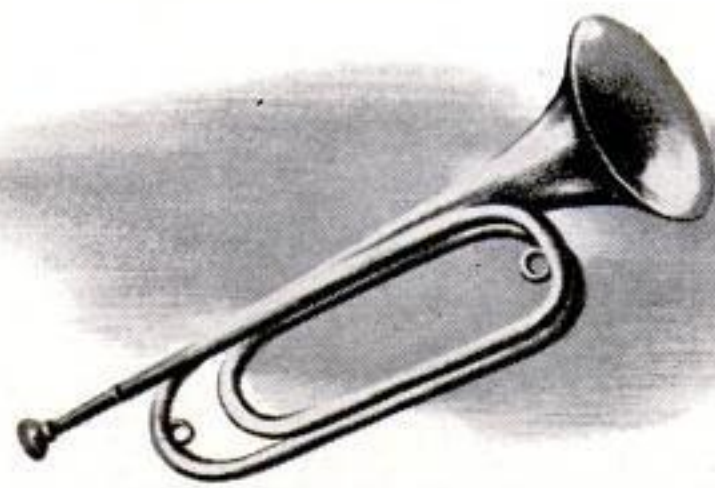
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 Amarillo, Texas, White's Auto Stores
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 Augusta, Georgia, J. B. White Company
 Aurora, Illinois, Biever Furniture Company
 Baltimore, Maryland, Hecht Brothers
 Bayonne, N. J., Lawler Brothers Sales Corp.
 Berkeley, California, Lanam Radio
 Bethlehem, Pa., Eastern Light Company
 Birmingham, Alabama, Louis Pizitz Dry Goods Co.
 Boston, Mass., R. H. White Company

Bridgeport, Conn., General Distributors
 Brockton, Mass., Central Radio Stores
 Buffalo, New York, Les Wheeler, Inc.
 Cambridge, Mass., R. H. White Company
 Camden, N. J., Whitehill's, Inc.
 Canton, Ohio, Dine-DeWees Company
 Chattanooga, Tenn., Lookout Furniture Co.
 Chicago, Ill., Wieboldt's
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soldier has gone to war

Yes, America's toys have gone to war . . . along with radios, refrigerators, ranges and many other modern necessities of life. But they'll be back — new, better and more plentiful — in Your Family Store of Tomorrow

SORRY, SON, Santa Claus can't mold any little lead soldiers for you this year. Dad's new radio, too — and the refrigerator mother wanted — have given their steel and copper and aluminum for war.

But don't you worry, peace will bring America's lost comforts back — and more.

Home will be truly a House of Wonders in this after-Victory world. Science already knows how to make it comfortable beyond our dreams. Invention will fill it with conveniences we have never known.

Methods developed by war will improve products and short-cut their manufacture. An abundance of materials, new and old, will make things plentiful.

All Sparton Plants on War Work Now!

Sparton, with the rest of American industry, has shelved all civilian production for the duration — and has enlisted all its plants, in the United States and Canada, in the service of war needs.

So, Sparton-made radios now speak on a dozen combat fronts. Sparton sirens sound their warnings in every corner of the globe. Sparton horns do duty in thousands of military vehicles.

But Sparton is looking ahead. Sparton products will be back — exciting new products, of highest quality, in wider variety. *And a simplified, money-*

saving method of distribution will bring them to you at amazingly low prices. That is The Sparton Way.

Rely on Your Exclusive Sparton Dealer

You may plan on these good things from your exclusive Sparton Dealer (only one in each community).

Leading merchants, who are serving you so splendidly today under difficult conditions, are also building for a world of tomorrow that will be worth all the work and sacrifice.

Americans who, before Pearl Harbor, bought beautiful Sparton radios or radio-phonographs know what The Sparton Way means in sensational *savings on quality home equipment.*

You may be sure that the new and finer products of Sparton laboratories will come to you under this same distribution plan — at prices within the reach of everybody.

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Precision Builders Since 1900*

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Minneapolis, Minnesota, Dayton Company
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Muncie, Indiana, H. J. Schrader Company
Nashville, Tennessee, Castner-Knott Dry Goods Co.
Newark, N. J., Kresge Department Store
New Britain, Conn., New Britain Furniture Company
New Haven, Conn., Shartenberg's, Inc.
New Jersey, at all Vim Stores
New Orleans, La., Maison Blanche Co., Ltd.

New York City, N. Y., at all Vim Stores, Spear & Company
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Norfolk, Virginia, Price's, Inc.
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Oklahoma City, Okla., J. A. Brown Co.
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San Francisco, Calif., Union Furniture Co.
San Jose, Calif., Union Furniture Company

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Shreveport, La., New York Furniture Co.
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LIFE'S COVER



It's well worth turning to pages 76-78 to see the other half of Joan Thorsen's pretty face and other eye-catcher hats. Joan was born in Auburn, Ind., studied at Northwestern, modeled briefly in Chicago before trying New York. In her first three weeks in New York she was photographed five times for a cover. This is the first one to appear.

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This is accomplished by a clever Goodyear development known as the Dual-Seal inner tube, embodying the same principle

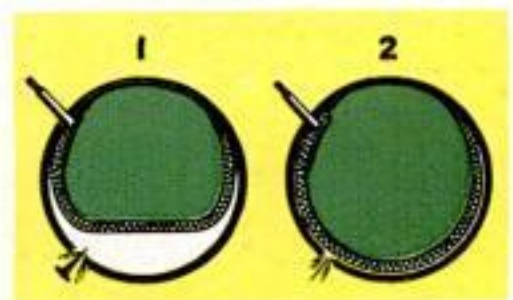
as the famous Goodyear LifeGuard. This tube has two air compartments. It is so constructed that, if the casing and outer tube are punctured, *the inner section expands and fills out the tire to normal size.* Even if the puncture occurs on the take-off, this double tube retains enough pressure to insure a safe, smooth-rolling landing after a long flight.

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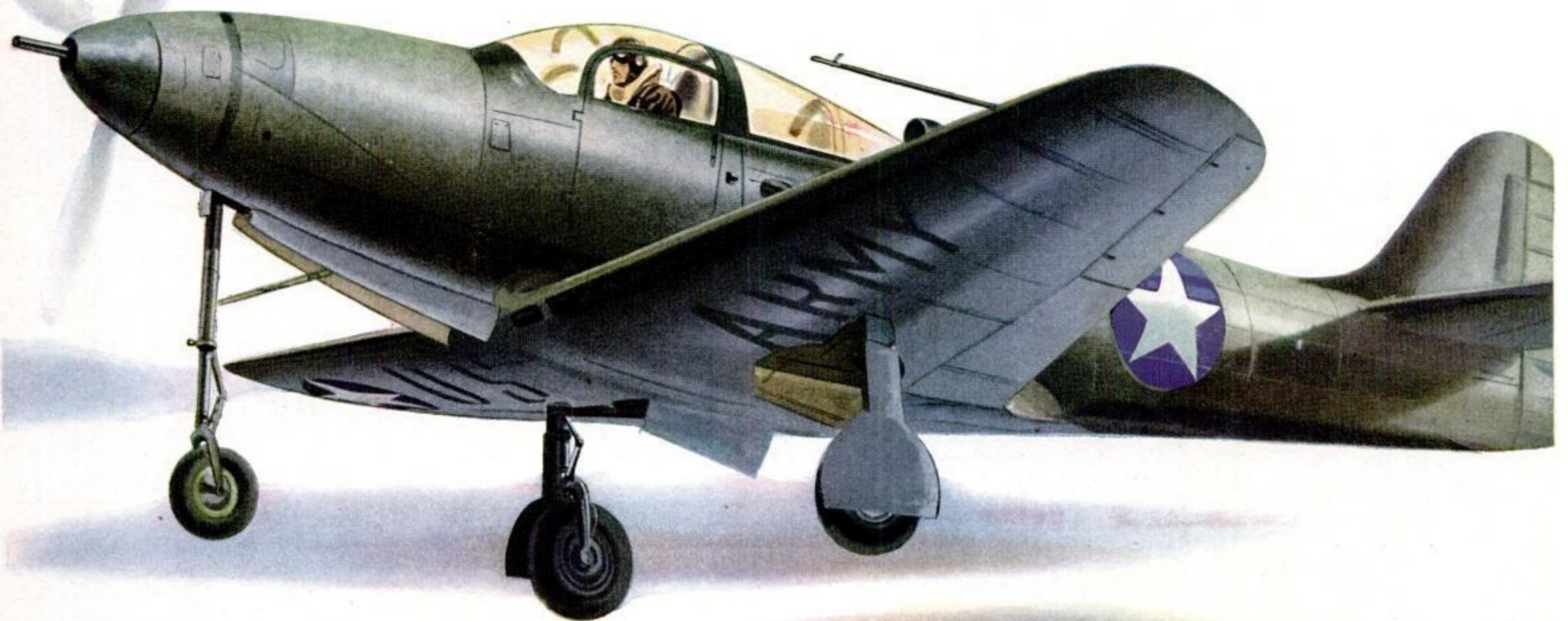
desert and jungle fields. Before Pearl Harbor, tricycle landing gear was in prospect on our commercial air transports, too. Now this must wait until victory comes. But Goodyear will be ready for these great new airliners of a better world—ready with airplane tires, tubes, wheels and brakes brought to new perfection in the crucible of war.

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LIFE'S PICTURES

Wallace Kirkland, who took the pictures of the Army nurses in New Caledonia (pp. 126-131), has been in the Australian area since early March. Now a veteran LIFE war correspondent, Kirkland was formerly a social worker at Hull House, Chicago. Sent up to New Caledonia to do a story on the American Army base there, he found the life of the nurses so interesting he decided on his own account that it should be recorded in pictures.

The following list, page by page, shows the source from which each picture in this issue was gathered. Where a single page is indebted to several sources credit is recorded picture by picture (left to right, top to bottom), and line by line (lines separated by dashes) unless otherwise specified.

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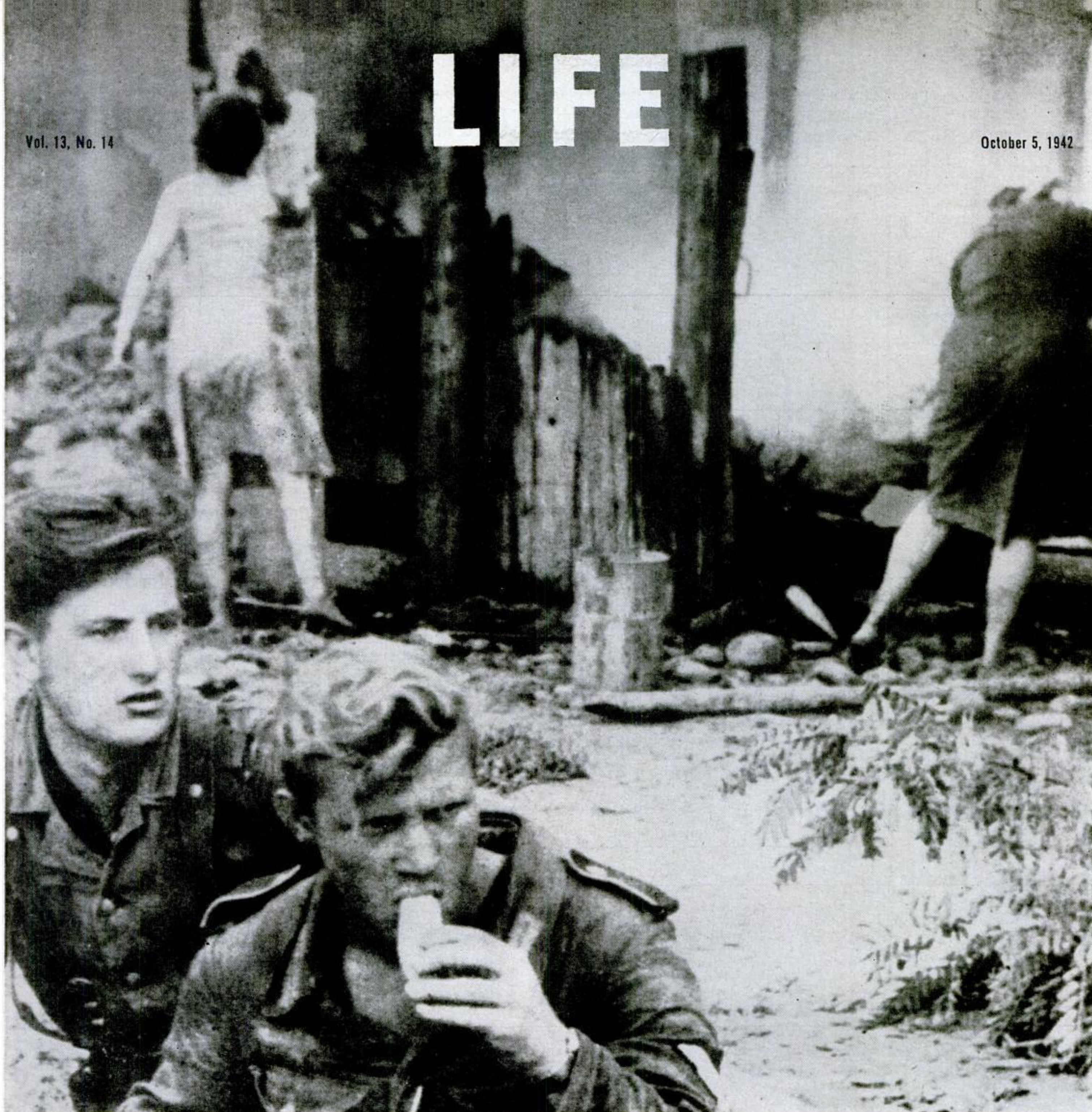
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GERMAN SOLDIERS TURN THEIR BACKS ON DESPERATE RUSSIAN WOMEN FIGHTING FIRES IN THE SHATTERED STREETS OF MAIKOP, MINOR OIL CITY IN THE NORTH CAUCASUS

RED ARMY FIGHTS FOR MOTHER RUSSIA

The two tough Nazis above, resting in the midst of horror, have gone deeper into Russia than any previous picture has shown the Nazi invasion. They are at Maikop in the North Caucasus, source of 7% of Russia's oil, and by now they have been so brutalized by war and human suffering and death that they are beyond humanity or decency. A million such men were last week in a rage because they had not been able to overrun Stalingrad on the Volga. They had planned to take it with one murderous rush and stab. Instead they had "crawled up to Stalingrad, bleeding and breathing heavily," and had been fighting in its outskirts for a full month.

Here and here alone World War II was really being fought. The other United Nations were in the embarrassing position of spending 1942 largely offstage in the wings watching their companions of the great

Red Army fight it out on the stage. A flicker of recrimination came between Soviet Russia and its allies. "The second front" became a slogan in Russia and a political issue in the U. S. and Great Britain. There was even ugly talk that Stalin might make a peace with Hitler.

Last week Wendell Willkie, as President Roosevelt's personal representative, called on Josef Stalin in Moscow's Kremlin. On page 35 of this issue Mr. Willkie makes a signed report to LIFE readers on his interview with Russia's boss. The one great impression that Stalin left with Willkie was that Russia would fight on and on until Hitler's war machine is destroyed by the United Nations.

The loss of Stalingrad and the Volga would hurt Russia hard. The Russia fighting in 1943 will no longer be the 1941 Russia of 193,000,000 people and

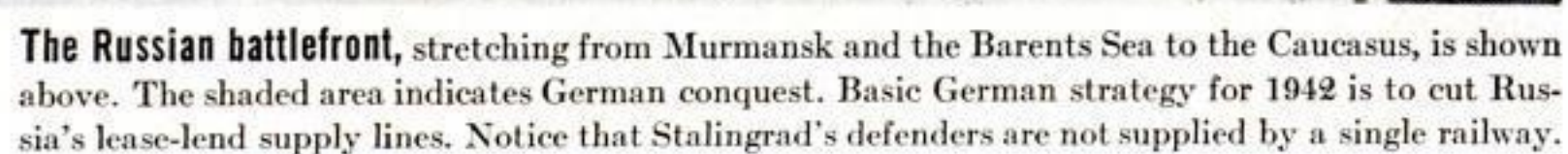
incalculable resources. It will have been cut nearly in half. But the Red Army is if anything a more formidable opponent today than it was a year ago. Reporters at Stalingrad noticed with astonishment that the Russians were fighting "with assurance," with technical mastery and with absolute confidence in final victory. They expected to be dead in a little while but they knew with certainty that some time after their death Russia would conquer. "Friends can be picked," wrote Ilya Ehrenbourg, "Wives too can be selected. But not a mother. In front of Stalingrad we are defending our mother—Russia."

There are only two armies today in the top class of fighters: the German and Russian. No others match those two. On following pages LIFE shows some of the men, weapons and methods with which Russians have jarred the German Wehrmacht's teeth loose.

The battlefield of Russia is not just the smoking rubble of Stalingrad. It is 3,500 miles long. In fact, it goes clear around the world, following the long supply lines from the U. S. and Great Britain. The longest of these is the supply route around Africa to the Persian Gulf, thence across Iran to the Caspian and up the Volga. The Germans have all but cut the Volga. But, as shown on the map at left, the Russians still have a railroad from Astrakhan to Urbakh, and the Ural River which is navigable to Uralsk on the railway. Even if the Germans should reach the Caspian, the Russians can sneak their supply ships along the east bank under cover of fighter planes based in the deserts bordering the Caspian.

The shortest present supply route to Russia is the northern one to Murmansk or Archangel. Archangel freezes in winter and Murmansk is under Nazi attack, but winter convoys have the protection of bad weather. Here both sides have lately massed fighter and bomber planes. The Germans have smeared Murmansk and the convoys approaching it. But the latest great German attack was fought off by the addition of a British carrier to the convoy. Never to be forgotten is the unbroken siege of Leningrad, where death by starvation stalks the shell-pocked streets.

The German railways supplying the front are shown on the map. The long, curved flank of the German line was under heavy attack last week at Rzhev and north of Stalingrad, down the railway from Michurinsk. The battle of Russia was dominated by heavy infantry, armed with tommy guns, mortars and self-propelled artillery, stiffened with tanks. Small units fought together and both sides were slipping through the enemy lines, raising hell. Both sides were full of tricks and deceptions, but man for man the Russians were putting more heart into the fight than the Germans.



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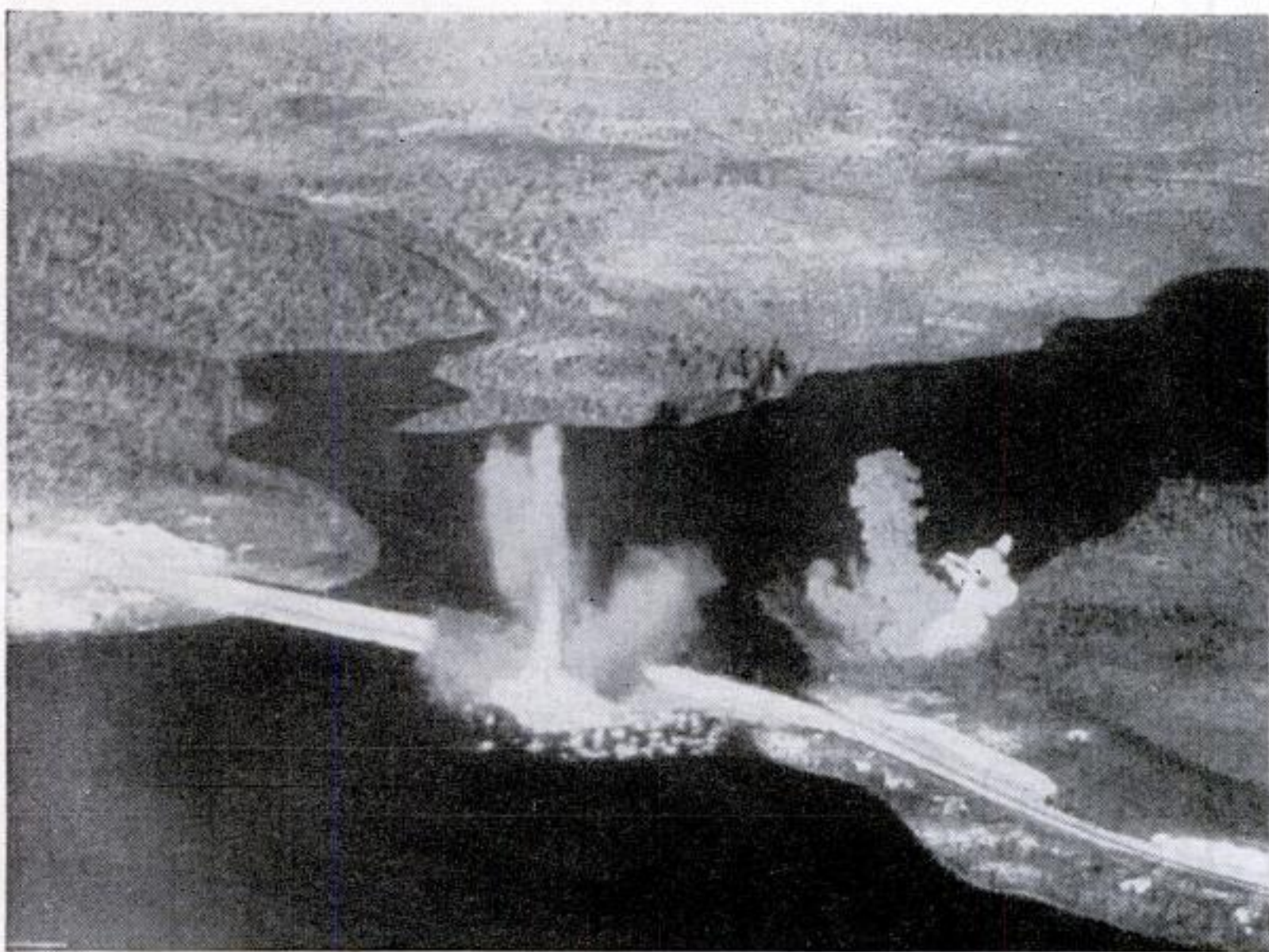
BATTLE OF MURMANSK



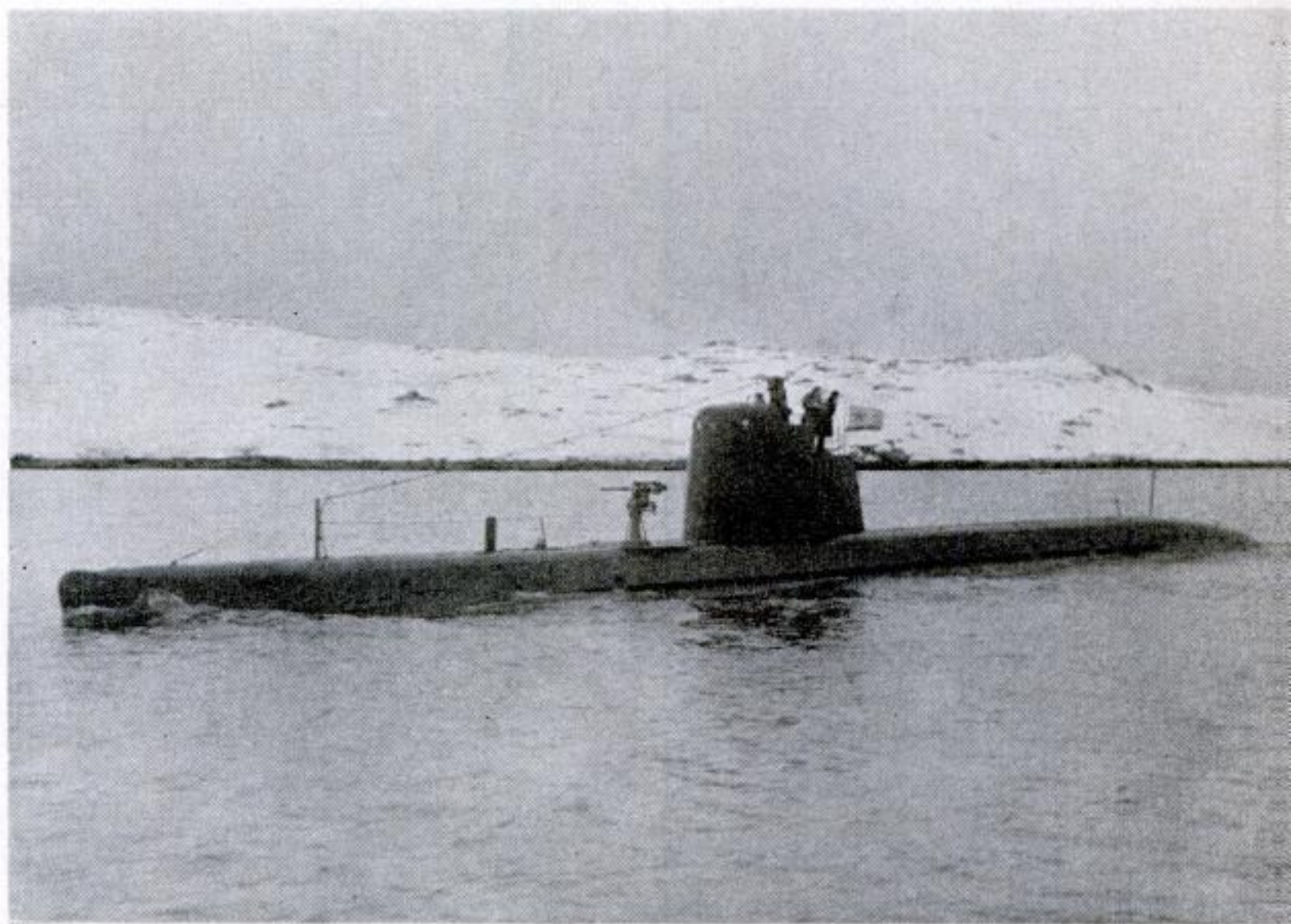
Near Murmansk, only 1,450 miles from the North Pole, crew of a Russian patrol boat lands and inspects a shot-down German dive bomber on the bleak shore of the Barents Sea. This

grim battle for the northern supply line to Russia is mainly an air fight. This plane had probably attacked lease-lend convoys and helped reduce the all-year port of Murmansk to a

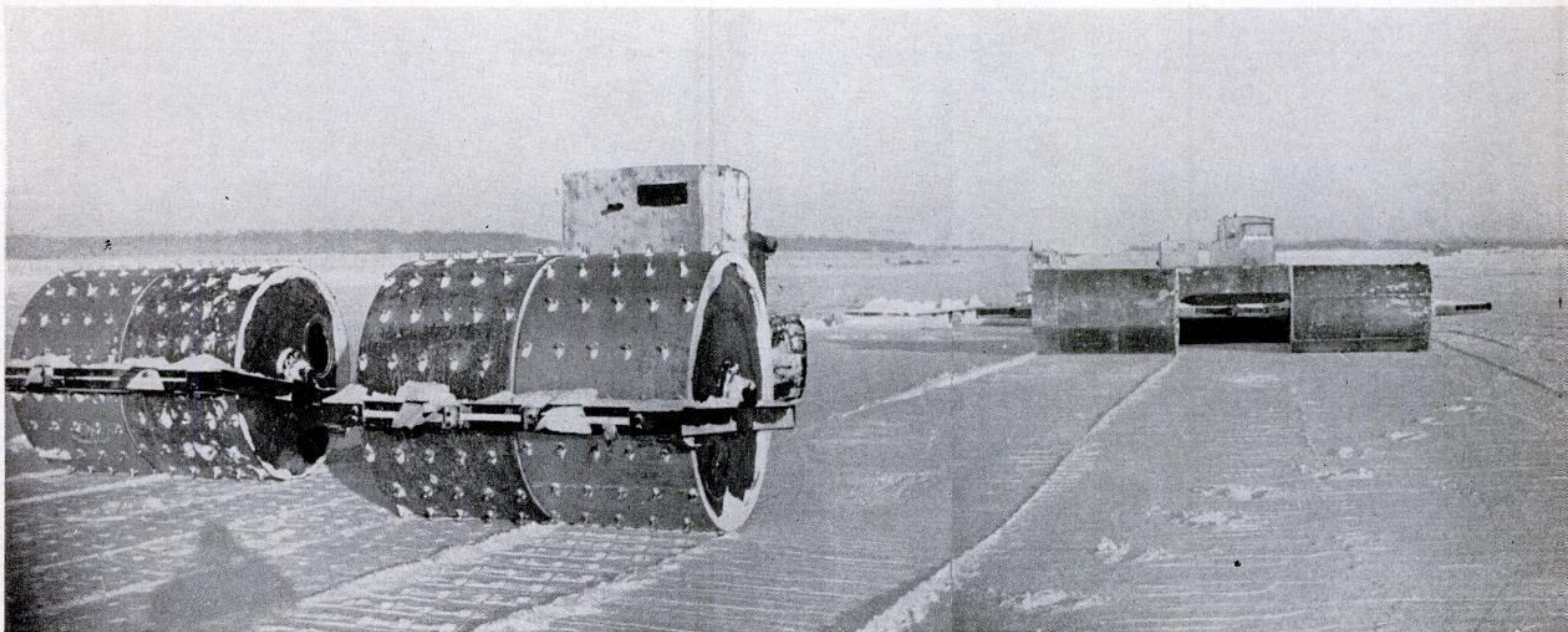
heap of rubble. Russian soldiers often use their leaves to rebuild Murmansk docks and then the Germans bomb them out again. German air bases are in northern Finland and Norway.



The lifeline south of Murmansk is bombed by Germans. Damage is repaired quickly by Russians, who have fought their stubbornest and longest battle to keep the Germans and Finns from capturing this rail line that parallels Finnish border. Murmansk is off to the right. This is an arm of the White Sea.



Russian submarine, flying the Soviet naval ensign, puts out into the icy Barents Sea to try to catch raiding German cruisers and destroyers or the battleship *Tirpitz*. One succeeded in putting a torpedo into the *Tirpitz* last spring. It may have an opportunity to repeat soon.



Far-north airfield is rolled and scraped by the Russians to get ready for ski planes. With a little help, much of the Arctic is a splendid airfield in the wintertime. Most of the battle for

Murmansk is fought north of the Arctic Circle. This field is about 1,000 miles from possible U. S. bases in northern Greenland. Operating from the snow, which begins falling in Septem-

ber, Russian ski-fitted fighters will defend Murmansk from bombing and Russian ski bombers will attack Finnish and German columns indefatigably driving toward the railway.

MAGNIFICENT MEN AND WEAPONS GIVE RED ARMY AN UNCONQUERABLE WILL TO WIN



The best tanks in the world today are probably the Russian tanks shown here. Russians call this fine, low-lying, welded 25-tonner a "light tank." It has a high-velocity 76-mm. gun.



Queen of the field is this 42-ton monster. Equipped with especially heavy armor, it has the same fine, low-hung lines as the "light tank" at the left and can roll at a steady 18 m. p. h.



52-tonner mounts 6-in. (152-mm.) gun, bigger than any German tank gun. Notice dents where shells bounced off turret, but one got gun barrel. The Russians also have a 70-ton tank.



The only tank-borne infantry in any army is the Russian. This group of three tanks and infantry armed with tommy guns has a terrific shock power but little holding power. It would be

used to exploit a break-through or to meet a German break-through. Nearest man also carries a black sack full of hand grenades, his tommy-gun bag and an entrenching tool. The

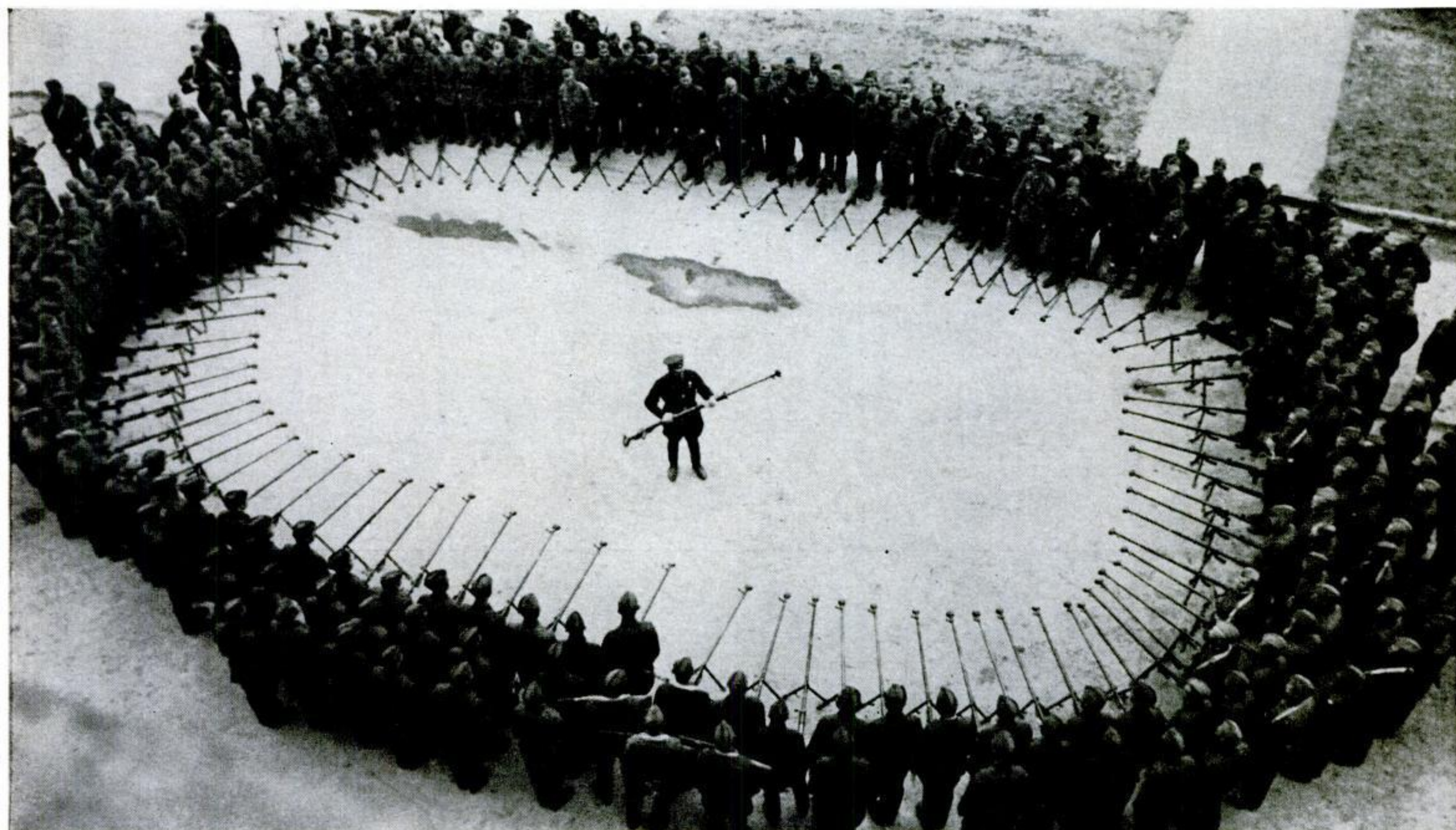
tanks carry a few logs to help get them through mud. These troops are physically tough and beautifully trained. They are 100% convinced that they are part of a great fighting team.



Russian stamina is shown by this squad wading up to their waists across a marsh to get at a German flank. The Russians will do literally anything to win, will crouch all night

in the swamp or snow, deepen and camouflage their trenches in their spare time. They take to swamps like muskrats, to forests like bears, to desert steppes like coyotes, to snow like

ptarmigan. This infuriates professional German soldiers who like to do a neat killing job. The two men in center carry a light machine gun and a Garand-like Russian Simonov rifle.



Before the battle, Russian antitank riflemen go through a solemn ceremony with which Russian soldiers say farewell to life. These long-barreled two-man rifles can pick off a tank's

eyeports, tracks or periscopes. The recoil is slowed down considerably by the muzzle brake, so that the man firing the gun is not knocked over by the kickback. Russians went into pro-

duction fast last autumn after they had seen the German ones and now they are a mainstay of the defense of Stalingrad. Rear ranks carry cartridge bags and grenades, help load the rifle.



Gigantic trench mortar can lob 40-lb. shell four miles. Notice the big man at the left rear. He is standing easily, carrying a total of over 100 lb., including the mortar shell, rifle, machine gun, winter overcoat and munition pouches. He is obviously a very good man to have on our side.



Big blond Russians carry their latest trench mortar, a short, heavy piece. These are often the decisive weapons on the roadless battlefields of Russia, where regular artillery cannot get up to the line until after the portable mortars have won the battle one way or another.



One whole German regiment is represented in this Russian salvage dump. Everything here will be used by the Russians in one way or another. In left foreground are German assault

guns, in right foreground armored ammunition carriers; beyond are armored cars, Czech tanks and just about every type of German armored vehicle. On a flatcar at the left is even

one lease-lend British Matilda tank, in for repair, and a Russian woman mechanic. The Russians waste no time getting as much as possible of this back into action against the Germans.

STALIN: "GLAD TO SEE YOU, MR. WILLKIE"

Through LIFE Roosevelt's personal representative reports on his interview on war in the Kremlin

by WENDELL WILLKIE

Moscow (by cable)

Stalin's invitation to me to come to the Kremlin for a conference reached the Foreign Office Guest House where I am staying at 7:30 on my third evening in Moscow. I knew that something important had happened from the way the receptionist acted when he announced that the Kremlin was on the telephone. The man was so excited that he could hardly speak and his arms bobbed up and down like a marionette's. It isn't every day that Russians make a connection with the Kremlin, even by telephone.

The time set for the meeting was 7:30 in the evening of Sept. 23. I spent the morning touring the defense installations of Moscow which I am glad to report are among the most formidable that I've seen in any country I've visited, and in the afternoon attended a reception given for me by Admiral Standley at the American Embassy.

At about 7:15 I stepped into the black Packard sedan that has been placed at my disposal and set out for the Kremlin. It was a cool autumn evening with the moon just beginning to climb over the Kremlin walls as we drove past them. I was wearing a business suit under my black overcoat.

The tall, rifle-bearing Red Army guards at the gates of the Kremlin had evidently been advised of my coming because they let my car roll through with nothing more than a casual glance as they saluted stiffly. Somewhere near the center of the grounds I got out and walked into the building where Mr. Stalin has his office. I reached the second-floor reception room at 7:29 and just after removing my coat and hat an interpreter appeared to say that Stalin was ready to begin the conference.

The moment I entered his office Mr. Stalin rose from his chair at the end of the long birch conference table and strode toward me. He was dressed in pink whipcord trousers, a gray military blouse and black boots. Though stockily built he was shorter than I expected him to be, despite reports I had read to that effect. Actually he would have to stand on his tiptoes to look over my shoulder. As we shook hands his first words were: "*Rad vas videt gospadin Willkie*" (Glad to see you, Mr. Willkie). I replied: "Delighted to see you, Mr. Stalin." After this exchange I greeted Mr. Molotov who remained throughout the interview. Besides the interpreter, no one else was present.

We felt completely at ease with one another throughout the conference. It was clear from the outset that Mr. Stalin did not look upon my visit as a courtesy call (which it wasn't), but as an opportunity for a frank heart-to-heart discussion about the war and the problems which always beset united nations in war and peace. Realizing that the greatest battle of the war—the battle for Stalingrad—was drawing to a climax every minute that we were sitting there, I thought it only proper after an hour that I should make a move to leave—although there was really much more that I wished to take up with him. But when I made this move he urged me to remain longer. We talked for another hour with only one break: when Mr. Stalin left for a few minutes to wash his hands.

Our talk took place around the end of the long table which has about six leather chairs on each side and one at each end. Mr. Stalin sat at one end with Mr. Molotov in the chair on his right and me and the interpreter on his left. As Mr. Stalin lit his pipe—a thing he did numerous times during the conference—I took in the room with one sweeping glance. Behind me stood a heavy mahogany desk where apparently Mr. Stalin works when he is alone. I noticed that it was piled with papers that might have been of a military character. Large rich squares of birch paneling covered all the walls of the room to a height of 8 ft. The walls above the paneling were plain yellow, decorated with several large black-and-white drawings, one of which was of Lenin. In an alcove off one end there

was a colossal relief globe about 10 ft. high. Although the office is large (about 75 ft. by 25 ft.), there is nothing pretentious about it.

First, Mr. Stalin inquired about my journey. I told him that the military position in Egypt was much better than I had expected to find it, that the British had recently dealt Rommel's forces a stunning blow and that throughout the entire Middle East in general the military and political situation for the Allies had become much firmer. Turning to lighter aspects of the trip, I said that I had enjoyed my air journey immensely, adding that one had to ride in airplanes really to understand how small are man and his works. "Aha, so there's something of the philosopher in you," Mr. Stalin said with a twinkle in his brown eyes.

Most of our conversation concerned military matters of a highly secret nature which, needless to say, cannot be disclosed. I can, however, state that Mr. Stalin gave frank, comprehensive and satisfactory replies to all of the many questions I raised. Furthermore, he said that Hitler, by rolling across South Russia to the Volga, had struck a terrible blow at the Soviet Union. But he left no doubt in my mind about Russia's power and determination to resist Germany at every tree, hillock, bridge and street until the United Nations destroy Hitler's war machine.

At one stage of our conference, Stalin made a convincing appeal for the United Nations to put every ounce of energy into the war effort with the greatest possible speed. If the will was present, he said that seemingly impossible obstacles could be overcome. In the simple eloquence and sincerity with which he spoke these words he showed a tremendous power of persuasiveness. Certainly one of the keys to his greatness lies in this ability.

I told Mr. Stalin that I was eager to get back to America to tell everyone what I had seen of the great fight Russia was putting up, both at the front and behind it. The work that women were doing in factories, hospitals, on farms and on the transportation system was particularly impressive to me, I explained.

Thereupon Mr. Stalin looked at me like an old friend and said: "Mr. Willkie, do you mind if I make a suggestion?" I said: "Of course not." Stalin then said: "Yes, tell America all that you've seen here. Tell Americans if you like that we need all the products they can send from their great workshops. We will be most grateful. But I would suggest that you understate the case rather than give anyone the impression that you are encouraging Americans to assume a patronizing attitude toward us." These I thought were wise words from a sagacious and alert man.

With every minute that passed my appreciation of Stalin's gift for clear, straight thinking increased. He never talked around a subject, but always stuck right to the point until there was nothing more to say. When he spoke—and of course it was always through an interpreter—he looked me straight in the eye and when I talked he listened attentively to every word, though he doesn't understand English.

Stalin appeared to be in excellent health and spirits, though he probably works as hard and shoulders as great a responsibility as any man in the world. The war has turned some of his jet-black hairs gray, but it has also steeled his heart more than ever against Fascist tyranny.

When our discussion ended I asked Stalin if he would be so good as to let me introduce Gardner Cowles and Joe Barnes, my two companions on this trip. He said: "*Pazhaluista gde oni nakhodiatsia?*" (Please, where are they?) I then explained that I had told them to wait at the Guest House within arm's reach of the telephone in case I could arrange a meeting. So I handed the interpreter a slip of paper with the Guest House telephone number, which I was carrying especially for this purpose. In ten minutes they arrived. Meanwhile Stalin had asked me if I would pose with him for a picture. We left the Kremlin at 9:45 and at midnight started for the front.



JOSEF STALIN & WENDELL WILLKIE POSE TOGETHER AFTER KREMLIN SESSION



STALINGRAD

Russians make it a second Verdun

The Battle of Stalingrad, fought from house to house, room to room, in the sprawl of buildings shown above, is a 40-day miracle that passes belief. The picture is drawn as though looking from the northwest. The mile-wide Volga flows away southeast. At extreme left the complex of buildings is the great tractor factory still working on tanks in the very thick of battle.

Next to it are the metallurgical laboratories and a suburb of workers' homes. At upper right, behind the thickest smoke, are the main railway station and the heart of the city. The Germans are in the foreground. In the sky are their Dorniers and Stuka dive bombers, part of a force of 1,000 Nazi planes that have smashed at Stalingrad. In the wooded marshy islands across the



river, the Russians have emplaced their big artillery. From the river, gunboats shell the German positions. The Battle of Stalingrad exceeded in violence anything before seen in this war. To the Russians it was a second Verdun. One platoon of Russians with two antitank guns fought 30 German tanks from sunup to sundown, knocked out 15. One group of Russian Yak

fighters shot down 90 German planes over Stalingrad. Russians fought from closets, cellars, roofs, windows and manholes, from behind hydrants and automobiles, crying "*Ni shaga nazad*," which means "Not one step back." When the Germans at last occupied a blasted building, the Russians blew it up. The battle was measured in yards. The great city was for all hu-

man purposes destroyed but, the Russians announced, "a defense can be organized amidst the ruins which no force can conquer." In the din of clanking tanks, whistling, crashing bombs, the stutter of machine guns, the whamming of artillery and the roar of planes, the stunned Germans fought as though in a dreadful dream and their bodies were left to rot in smoking streets.

LIFE ON THE NEWSFRONTS OF THE WORLD

Where Will Hitler Move Next?

Watch the Psychological Front

Whether on the football field or in war, one element of strategy is to figure out what your opponent is going to do next. Sometimes this is more important than figuring your own moves. We are approaching a crisis in World War II and perhaps the smartest way to get ready for it is to have a look at Hitler's probable, or possible, strategy during the next few months.

In order to do this intelligently we must first take account of two facts, one of which has to do with Hitler and the other with us.

The fact that has to do with Hitler is that he is not primarily a military man. He is primarily a psychologist. He began his career as propaganda chief of the Nazi Party, and ever since then the control of the public mind, both in Germany and in foreign countries, has been his constant obsession. When he seized the German state he fell heir to a great military tradition, to the best generals in the world, to secret plans and ambitions that the Army had been nourishing for years, or indeed, for generations. From them he derived military power, not because he was a great soldier, but because he gave them scope and leadership.

That he is a psychologist before he is a general is proved by the nature of the war he has fought. World War II has been primarily a psychological war. The only clear exceptions are the campaigns in Russia and Libya, where psychological warfare could not be waged, and where, significantly, the military objectives have not been attained. Every clear-cut Hitler victory has been first a psychological victory. The tactics of this warfare have rested heavily on a weapon known as the fifth column. Using German-born elements as a nucleus in each nation, the fifth column reached out to include native malcontents, crackpots, demagogues, reactionaries and power-seekers. The issues these people created and rumors they spread were picked up and made respectable by naive patriots in honest disagreement with the nation's leadership. And thus there grew up within each country a body of conscious and unconscious Nazi sympathizers, who weakened the psychological rear. When the German Army struck, a "military" victory was just a setup.

The presumptive evidence from this record makes it necessary to guess that Hitler's next moves may not be military at all, but psychological.

To Divide and Neutralize

This presumption becomes stronger when we consider the second fact, which is a fact about us. If Russia holds out, if England holds on, if the U. S. keeps fighting, Hitler

must eventually lose. His war against these three powers in active combination is a war of diminishing returns. And if you were the world's greatest practical psychologist faced with this fact your next move would not cause you much hesitation. You would at all costs seek to divide and neutralize the nations whose resources and manpower, if kept actively mobilized, must surely overwhelm you. As the man who burned the Reichstag for the purpose of creating a political crisis, you would stop at no trick. You would offer face-saving "peace" terms to all concerned. An examination of what these might be would lead us far afield, but anyone who doubts that face-savers could be invented has not followed the Hitler record to date. You yourself might even offer to resign as head of the German state, retiring to Berchtesgaden or elsewhere, as a kind of demigod, leaving behind you some appointee more "acceptable" to your enemies. If such ideas sound fantastic, let the reader reflect on some of the phantasmagoria of the past. The cold fact is that if Hitler cannot succeed in dividing the United Nations, or in neutralizing their state of mind, he will eventually be rolled back. Of this fact he cannot be unaware. And in order to escape it he will not hesitate to use all his old devices. The more fantastic they are, the more confusion they will create, and hence, the better they will serve his purpose.

The Key to the War

Whether such reasoning is sound or not no one on our side can tell for sure. But the mere possibility of a psychological attack gives Americans plenty to think about. For one thing, the position of Russia is critical. But this is only a beginning. However important the Russian state of mind, it is not the definitive state of mind. The definitive state of mind in the psychological war is that of the English-speaking peoples. So long as England stands as a fighting base, and the U. S. as a fighting arsenal of machines and men, Hitler cannot win a breathing spell. And when you get the problem reduced this far you discover that the British state of mind as a fighting base must, in the last analysis, depend on the American state of mind as a fighting arsenal. Unless the American people are fighting it is difficult to see what the British can hope to win. The American state of mind is thus the key to the entire war, the objective against which Hitler must beam his psychological attack.

Hitler Cheers Us On

Will Americans fall for the hocus-pocus of German psychological warfare, which has deluded them in the past and which has betrayed all the people of Europe? Before snapping an answer it is necessary, perhaps, to reflect that up to now the American state of mind is not something that Americans can be

proud of. For the first time in their history Americans, from top to bottom, have failed to act like Americans. We spent years dodging facts, trying to persuade ourselves that we could "stay out." And even now, though our Army can be ranked only fifth or sixth, we lack the political nerve to start training 18-year-old men. American soil has been captured, American boys have been killed. Yet we cannot control American prices. When the President demanded price powers the agricultural interests in Congress devised a subterfuge, worthy of Hitler himself, the effect of which would be to raise prices higher than ever. Labor has not lived up to the American tradition either. It is endangering the nation by insisting on the maintenance of a peacetime standard for real wages. Critical manpower shortages are just ahead, yet the Secretary of Labor doesn't think that manpower regulation is necessary. There is bootlegging (both commercial and private) of war essentials. There are "hate" organizations—hate Roosevelt, hate Catholics, Jews, Negroes. These are elements of discord. They provide Hitler with perfect weapons for a psychological blitz. And by every means at his disposal he cheers us on.

On God's Side

It is time—it is past time—for Americans to reach a decision. We have two choices. Like the people of Europe we may choose the easy way and yield ourselves up as victims of a psychological trickster who has never yet won a decisive victory on purely military grounds. If we choose this course, then let's get on with it. Let's elect more Senators like Thomas of Oklahoma, more Congressmen like Steagall of Alabama, who will put their special interests above those of the nation. Let's have higher wages—the quicker we get a real inflation, the better. Let's have an orgy of selfishness and self-delusion. And let's bury the boys who fell on Bataan and try to forget them.

But if we want to be Americans, then let's stand up and be counted. Let's be Americans in Congress. Let's be Americans in the labor unions. Let's be Americans in the kitchens and the homes and the factories, in every thought we think and every decision we make. Let's try to emulate the boys on the Yorktown and the boys of Squadron 8 and the boys who are following after them. Let's be Americans, not in a narrow sense, but in the sense of free men so proud of freedom that they have the guts to do the things that are right instead of the things that are easy: Americans in the sense that Abraham Lincoln meant when he said, "I care not if God is on my side. My constant hope and prayer is that I may be found upon God's side."

The merit of this second decision is that Hitler will get licked. Because, against God's side, the hocus-pocus of psychological warfare won't work.

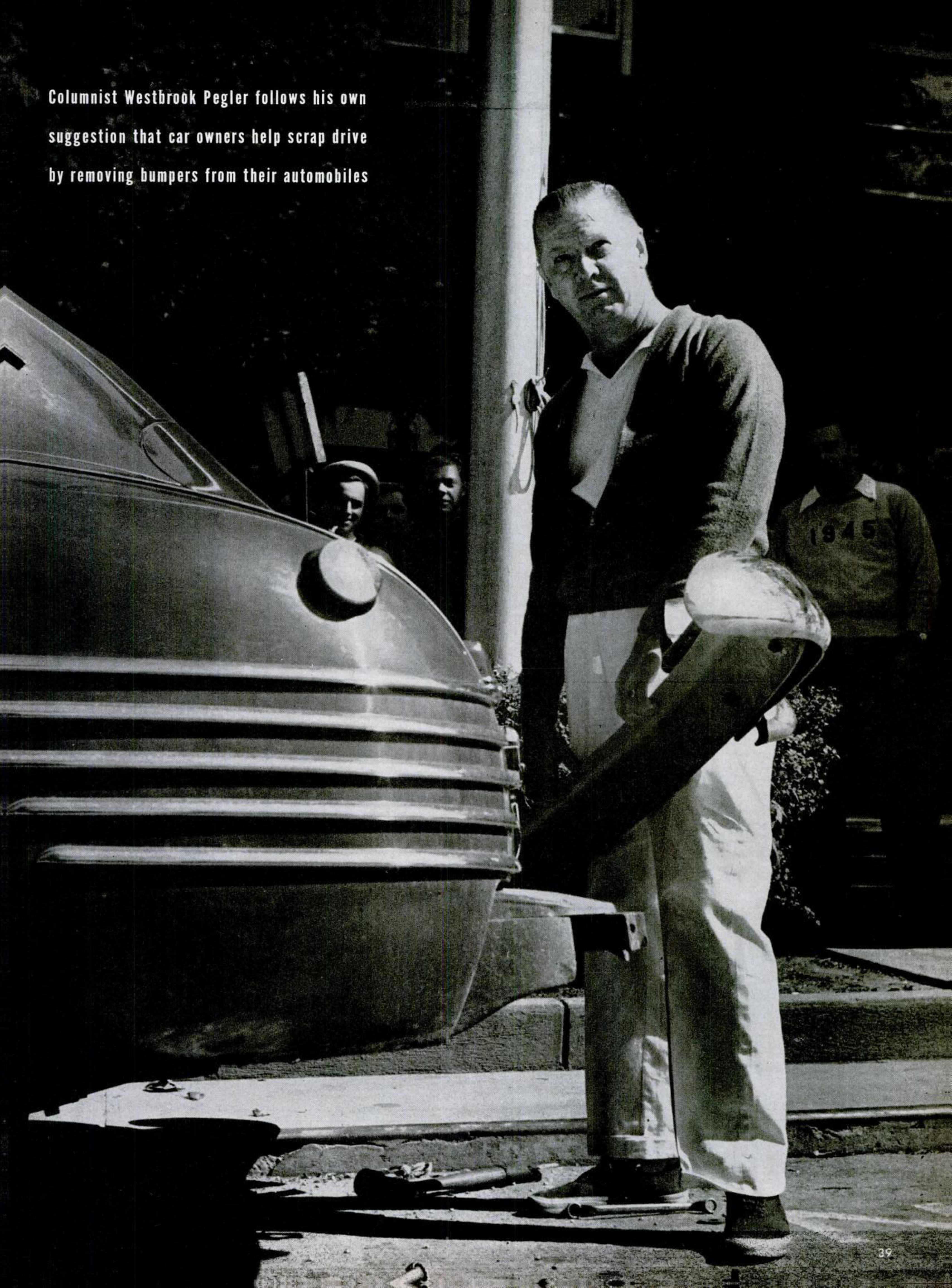
PICTURE OF THE WEEK

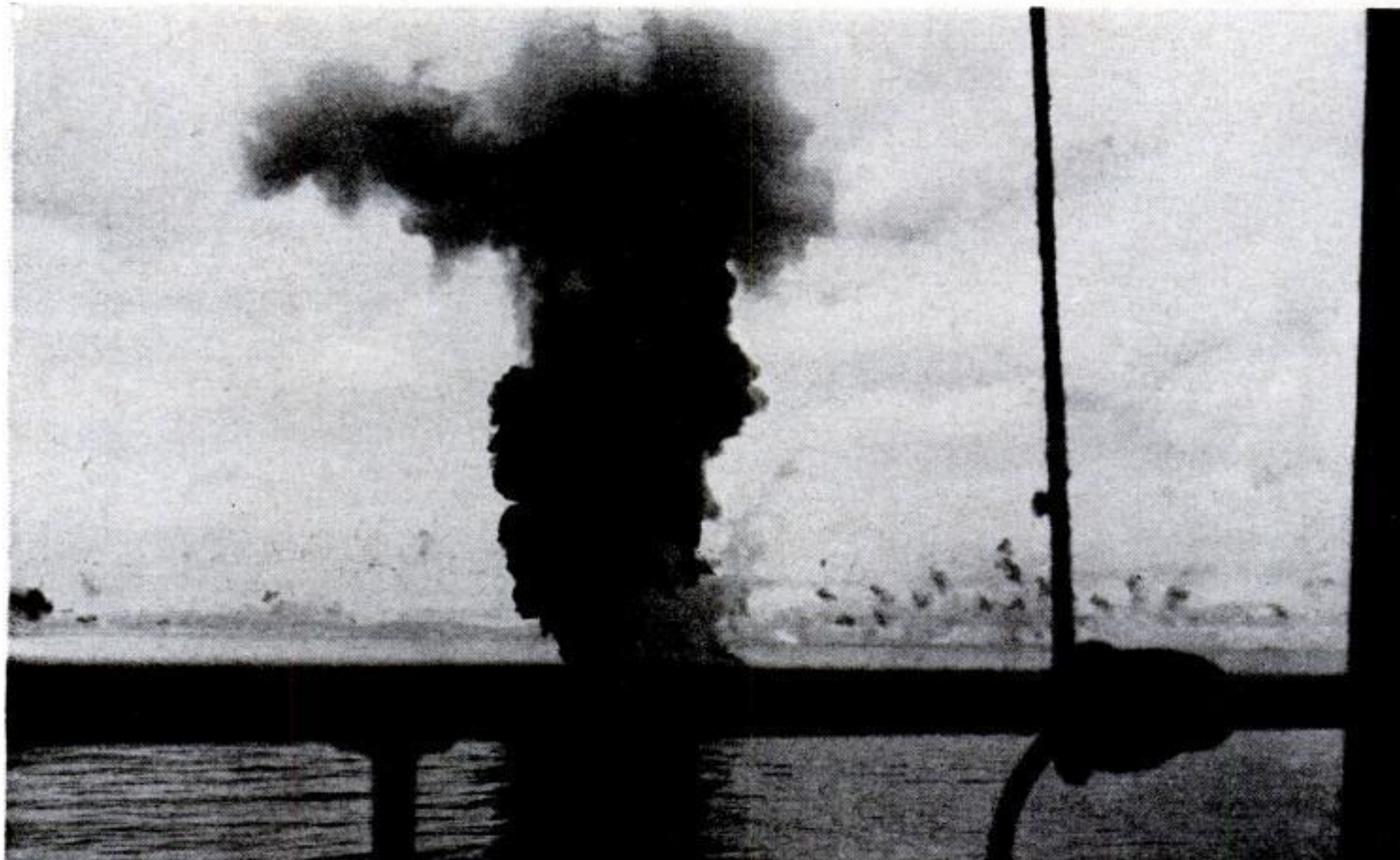
Westbrook Pegler, whose prose appears daily in 177 newspapers, last week pounded out a constructive idea. He demanded that U. S. citizens,

instead of collecting hairpins, paper clips and overall buttons, contribute 300,000 tons of scrap by stripping off their car bumpers. At LIFE's in-

itation, Mr. Pegler set an example for 28 million car owners by helping (see opposite page) to remove bumpers from his own shiny 1942 Chrysler.

Columnist Westbrook Pegler follows his own
suggestion that car owners help scrap drive
by removing bumpers from their automobiles





A Jap plane goes up in a cloud of oily black smoke after it has been hit by anti-aircraft fire. It was coming straight

at this transport, from which the picture was made, when it was hit and exploded. The Japanese pilot was never seen.

BATTLE ACTION IN SOLOMONS

New pictures show excitement and tragedy of this bloody struggle

A tense calm hung last week over the Solomons. On Guadalcanal U. S. Marines skirmished with strong Jap patrol units which were still trying to recapture the island's valuable airfield. Over the surrounding seas, reconnaissance planes searched for the Jap task force which the week before had withdrawn to the north, two of its battleships damaged by U. S. Flying Fortresses. Over Jap bases themselves, like Gizo Island, Rabaul and Rekata Bay, U. S. Army, Navy and Marine bombers appeared continually, hammering away at storage dumps and troop assembly stations.

The calm would not last. Soon U. S. commanders expected the Japs to make a fierce attempt to win the islands back. Without the Solomons, the Jap flank was endangered. They could not attack Port Moresby by sea or safely move toward New Caledonia and Australia. To get ready for the expected attack, U. S. naval, air and ground forces were continually being reinforced. Meanwhile, they waited and watched.

The people at home waited too. They still had little notion of what had happened in the first round

of the Solomons battle, let alone what was to happen next. But last week the first really good pictures of the August fighting for Tulagi and Guadalcanal arrived in the U. S. When the people saw them, they could understand part of the excitement and tragedy of this bitter struggle in the deep tropics.

The Americans moved in on Aug. 7-9. Under a protection of bombers overhead, ships shelled the shores of Guadalcanal. Jap ships fired back, point-blank. Huge balls of fire sailed through the air. Enemy planes attacked American transports and were driven off by terrific AA fire. Both Allied and Jap ships were lost. From the transports, Marine landing boats splashed overboard, moved toward the shores. When the fighting was over, Jap prisoners were put behind wire and Jap dead were stacked in heaps.

The Japs fought to the terrible end. One morning a U. S. destroyer tried to pick up a Jap pilot sitting with his crewmates on the wing of a shot down plane. Seeing the destroyer, the pilot drew his revolver and shot at the ship. When this proved futile, he turned on his companions, shot them and then shot himself.



UNDER TROPIC SKY PIERCED WITH AA FIRE, JAP PLANE FALLS



Marine landing boats are launched from a transport and, low and black on the water, begin their approach to Guadalcanal in background. Puffs of smoke are from U. S. ships bombarding the shore.



Australian cruiser "Canberra" burns after being hit by Jap planes. U. S. destroyer stands by. Last week the Navy announced loss of destroyer *Jarvis* and auxiliary transport *Little*.



IN THE WATER AND BURSTS IN FLAMES. THIS PICTURE AND THE PICTURE AT LEFT CAME FROM A RED CROSS OFFICIAL WHO WAS ABOARD A TRANSPORT THAT CARRIED MARINES



Jap prisoners captured on Guadalcanal were mostly workmen, not soldiers. These men were building airfield when the Americans arrived. U. S. now operates planes out of same field.



Dead Japanese soldiers are placed in an open pit. Most Japanese soldiers preferred to die fighting or to shoot themselves rather than be captured. Those who were captured expected to be killed.

THE AMERICAN LEGION OPENS ITS RANKS TO VETERANS OF THE SECOND WORLD WAR

The first wartime convention of the American Legion, held in Kansas City last week, was sober, dignified, businesslike. There were no parades, drills or banquets. The 1,500 delegates were more concerned with beating Hitler than with gags, girls and guzzling. They envied their 100,000 comrades who were lucky enough to get back into active duty, spoke with pride of the Legion's 300,000 sons who were young and strong enough to be the dough-boys of this war. They listened to blunt speeches from new leaders like Donald Nelson, James Landis, William Green and Robert Patterson, heard about the sacrifices which the U. S. must make to win from old leaders like Frank Knox, Paul McNutt and Ben Lear. Of all the speakers it was tough, gruff Lieutenant General Lear (right) who struck the most responsive chord when he assured the veterans that "no matter how many books to the contrary . . . this war will be victoriously concluded only after American ground soldiers, tired, dirty and bloody . . . have broken our enemies' lines."

In its business sessions, the Legion opened membership to World War II soldiers, backed a bill to lower the draft age, elected Roane Waring (below) national commander, did not set a time and place for next year's convention.



GENERAL BEN LEAR TELLS LEGION THAT COMMON FOOT SOLDIER WILL WIN THE WAR



New National Commander of the American Legion, Roane Waring, is hailed by State delegates after his election by ac-

clamation. Standing beside the 60-year-old veteran of St. Mihiel and the Argonne is his wife. Waring, who commanded

the Second Tennessee Infantry of the 30th Division in the last war, is now president of Memphis Street Railways Co.

Following the Sun Around

Naturalizer

SHOES

for every time and occasion

Noble



Stardust



Romance



Sudan



Cossack



Rookie



Liana



\$6.95

SLIGHTLY HIGHER
DENVER WEST

BRAVE, GAY SHOES for that sundown pickup which every woman owes herself.

STAUNCH STYLES for day-long war work.

Both types fit your foot as neatly as they fit the occasion —because they're made on Naturalizer's "no slip—no gap—no pinch" principle. See them at a Naturalizer* store or write for name of near-by Naturalizer dealer. BLUE RIBBON SHOEMAKERS. Division of Brown Shoe Company, St. Louis.

The shoe with the beautiful fit

*Reg. U. S. Pat. Off.



JOHN FALTER

Strictly off the record



JIM: I understand the Four Roses people wanted to use you in a magazine ad, Eric.

ERIC: Yes, but I told them I'd rather not. Being a composer, I figured they'd want me to rave about their whiskey being a symphony of virtues, Number One on the sip parade, and all that sort of thing.

JIM: Judging from this grand Manhattan, I'd say Four Roses comes pretty close to being just that.

ERIC: Sure—strictly off the record, it's tops! It's the finest whiskey ever bottled! In fact, anybody who hasn't tasted Four Roses recently doesn't know what he's been missing. It's the one whiskey I know that makes a perfect Manhattan Rhapsody!

JIM: Now you're talking like a composer in a Four Roses ad, Eric!

ERIC: I guess you're right—but it's the only way I know to describe the magnificence of today's Four Roses! Tell you what, Jim—on second thought, I'll let them quote me in a Four Roses ad if you'll agree to be in it too.

JIM: It's a deal. Let's seal the bargain... with another Four Roses Manhattan!



How to make the world's finest Manhattan—take one part vermouth and two parts Four Roses Whiskey. Add dash of Angostura Bitters. Stir well with cracked ice, strain, and serve with cherry.

Four Roses is a blend of straight whiskies—90 proof. The straight whiskies in Four Roses are 5 years or more old. Frankfort Distilleries, Inc., Louisville & Baltimore.

YOU'VE NEVER TASTED SUCH WHISKEY AS TODAY'S **FOUR ROSES!**

CHRISTMAS GIFTS FOR ARMY & NAVY

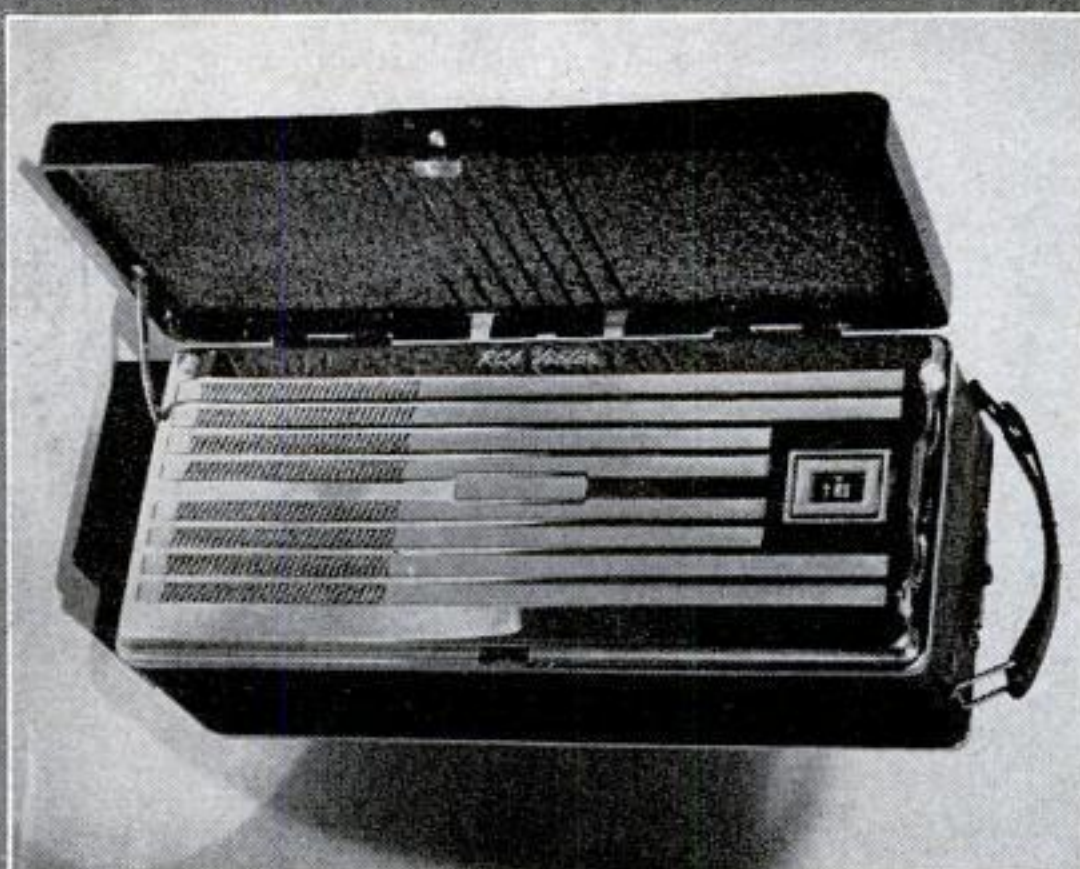
Shopping for men overseas gets early start as polls show what they really want to have from home

Christmas shopping, which normally gets off to a sluggish start in November, is already well under way for that growing section of the population which has husbands, sons and brothers in service overseas. To reach the far corners of the earth where U. S. men are fighting, the War Department announced last month that all Christmas

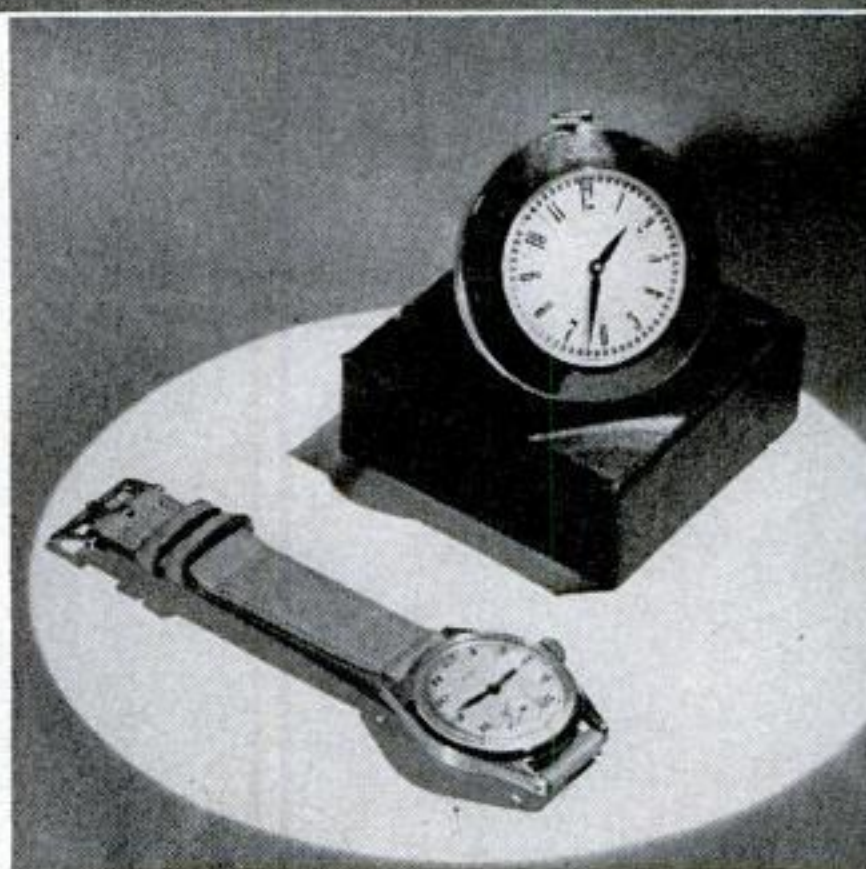
mail must leave the U. S. by Nov. 1 at the latest. Simultaneously, it gave its specifications for parcels: maximum weight, 11 lb.; maximum size, 42 in. overall; wrappings, substantial yet easily removable for censor's inspection. Taboo are intoxicants and inflammables.

After the War Department had had its say, the

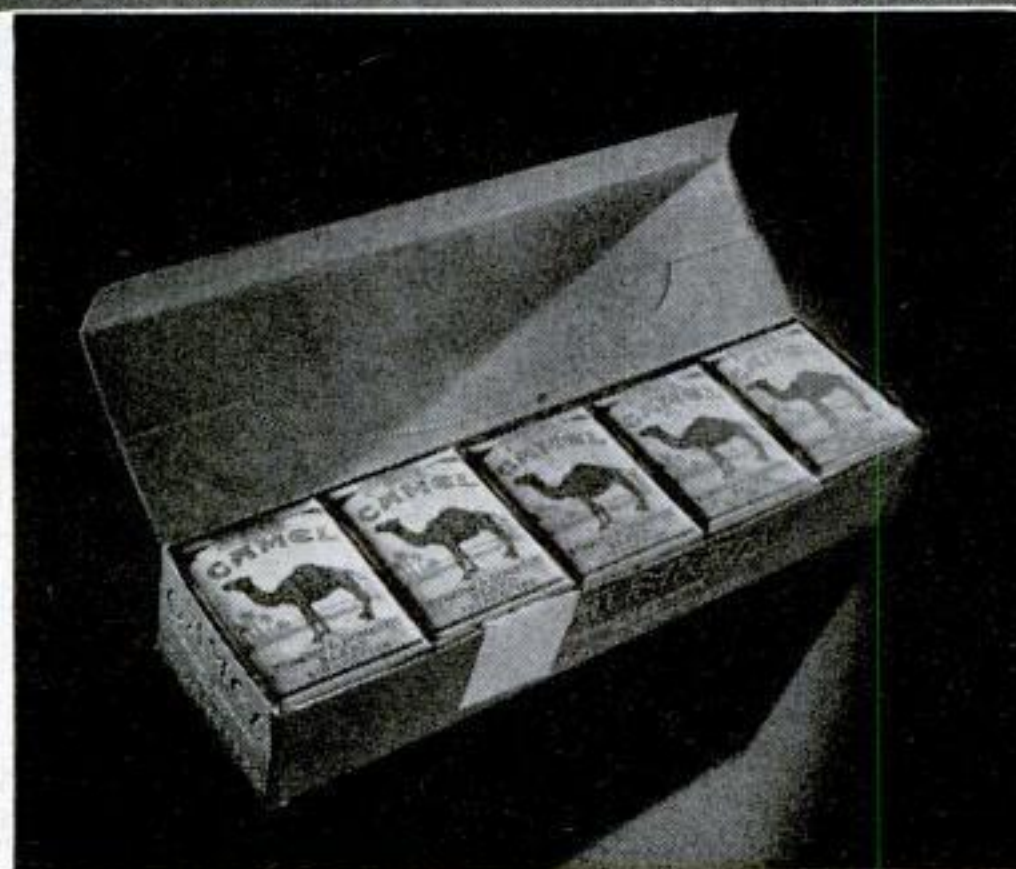
men in service had theirs. Polls conducted among soldiers and sailors showed that they definitely do not want diaries, cribbage boards or money belts. The things—within official limitations—that they most want are pictured on these pages. Unattainables most frequently listed by wags were: 1) a blonde; 2) my wife; 3) an honorable discharge.



Portable radio is high on list of both Army and Navy men. But senders must choose one that does not exceed maximum weight.



Waterproof wrist watch is tops with Navy (90%). Pocket watches and alarm clocks find less favor.



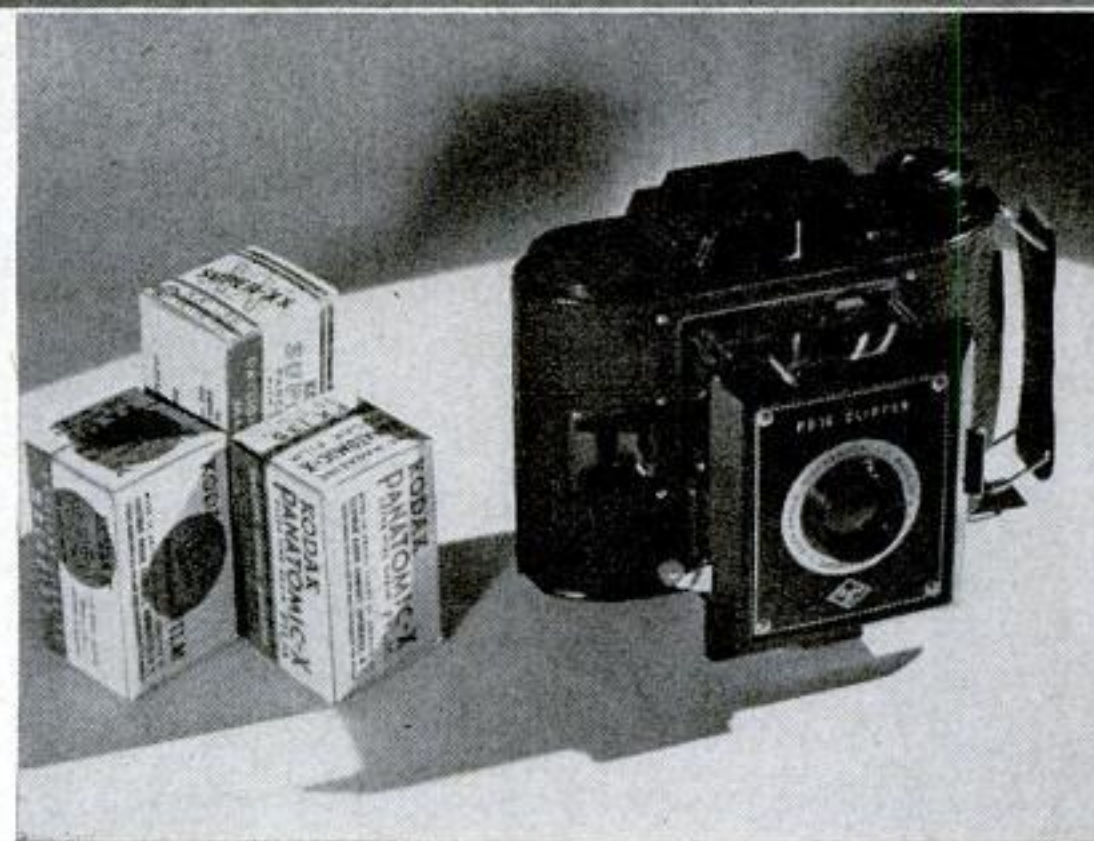
Cigarets are first choice of soldiers (80%). Almost all smoke one of Big Three popular brands. Sailors polled only 65%.



Homemade jellies and preserves are popular, averaging 56% in both services. War Department warns against sending perishable foods.



Pen and pencil set is 61% choice. This is good omen to letter-hungry relatives.



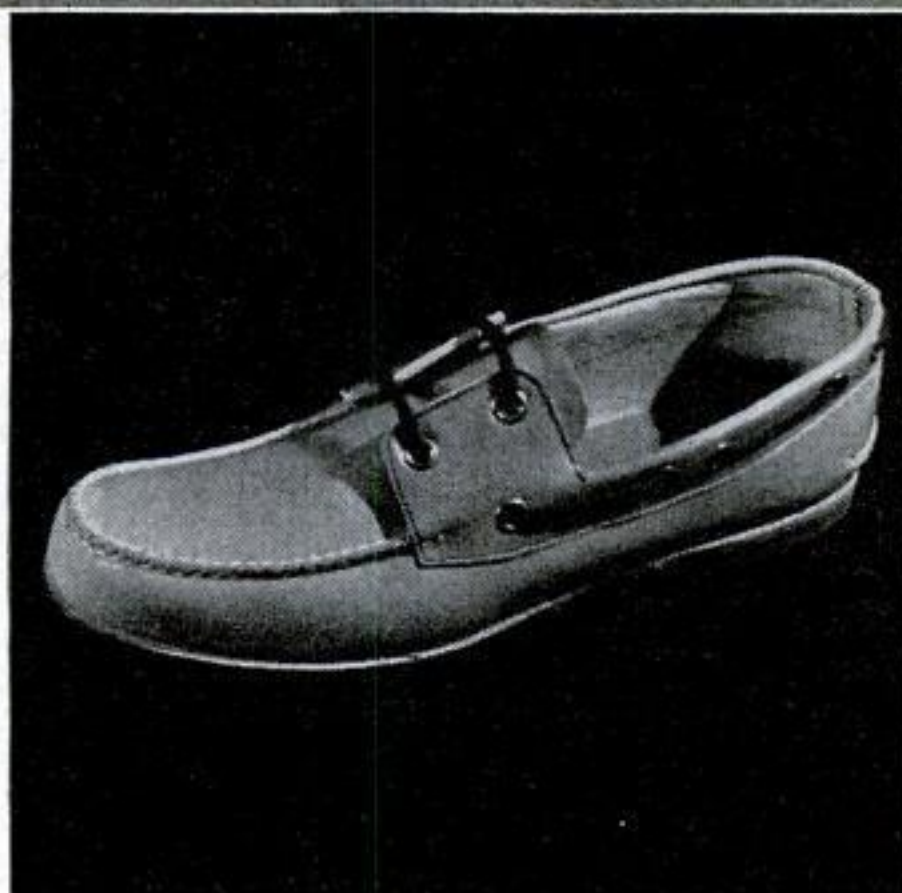
Small cameras are in demand among men who want to record history in the making. But services discourage and restrict them.



Hard candy is welcome and sensible as it will not spoil in transit.



Cigaret lighter (windproof) is wanted by 60%. Matches are banned in mail.



Warm slippers or lounge shoes are big item among soldiers. They also like to get socks and shoe brushes.



Extra shirts are 65% choice with Army, 47% with Navy. They must be strictly regulation.



It's Delicious!

Brer Rabbit Milk Shake

RICH IN IRON AND CALCIUM

HERE'S A DELICIOUS DRINK for children . . . and grown-ups, too. Rich in calcium and iron. Milk for calcium . . . Brer Rabbit Molasses for iron—the same *delicious, inexpensive* Brer Rabbit Molasses you use for baking.

To make Brer Rabbit Milk Shake mix one tablespoon of Brer Rabbit Molasses with a glass of milk. A wonderful combination—a perfect food drink.

Scientific tests have shown Brer Rabbit is second only to liver as a rich food source of iron the body can use. Three tablespoons supply about one-third of a child's minimum daily iron requirements.

Brer Rabbit Molasses comes in two flavors: Gold Label, light and mild-flavored; Green Label, dark and full-flavored.



12 delicious ways to use Brer Rabbit Molasses —AND SAVE SUGAR, TOO!

Gingerbread . . . Cookies . . . On Bread and Butter . . .
Candies . . . Muffins . . . Puddings . . . Brown Bread . . .
Baked Beans (old-fashioned) . . . Pies . . . On Cereal . . .
Baked Ham . . . Candied Sweet Potatoes.



FREE—MAIL COUPON TODAY!

PENICK & FORD, LTD., INC., NEW ORLEANS, LA., Dept. LF1005-2.
Send me—FREE—Brer Rabbit's "Save Sugar by Using Molasses," and "Modern Recipes for Modern Living."

Name _____
(Print name and address)

Street _____

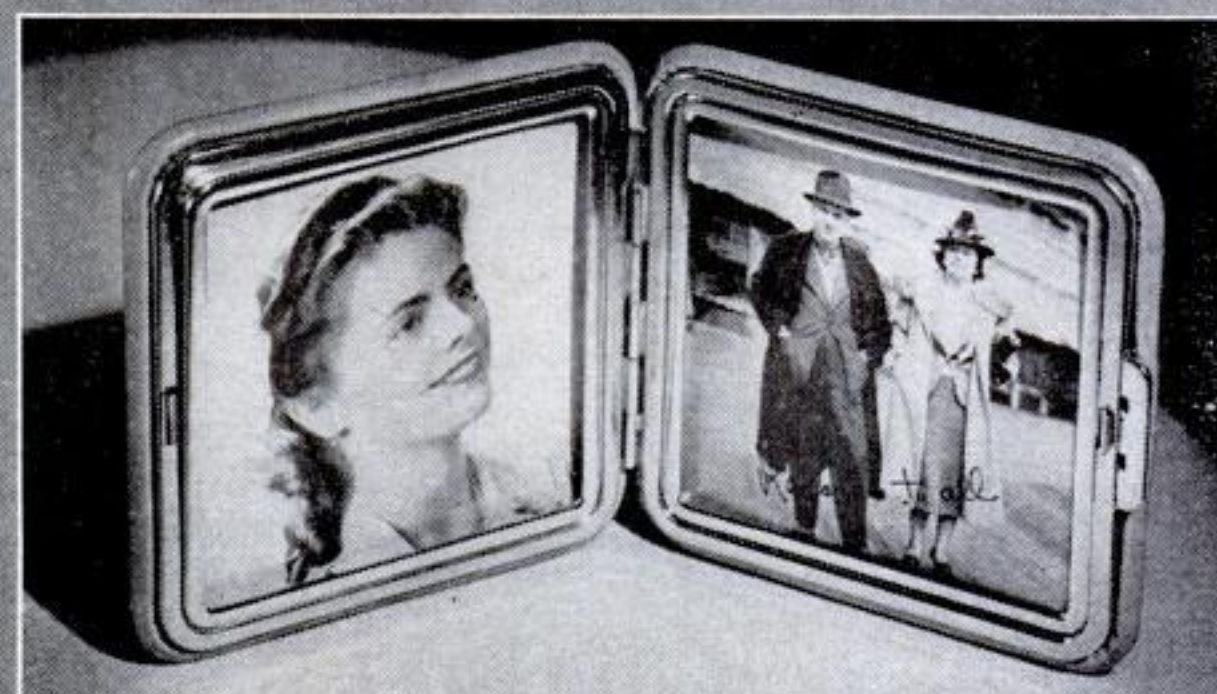
City _____ State _____



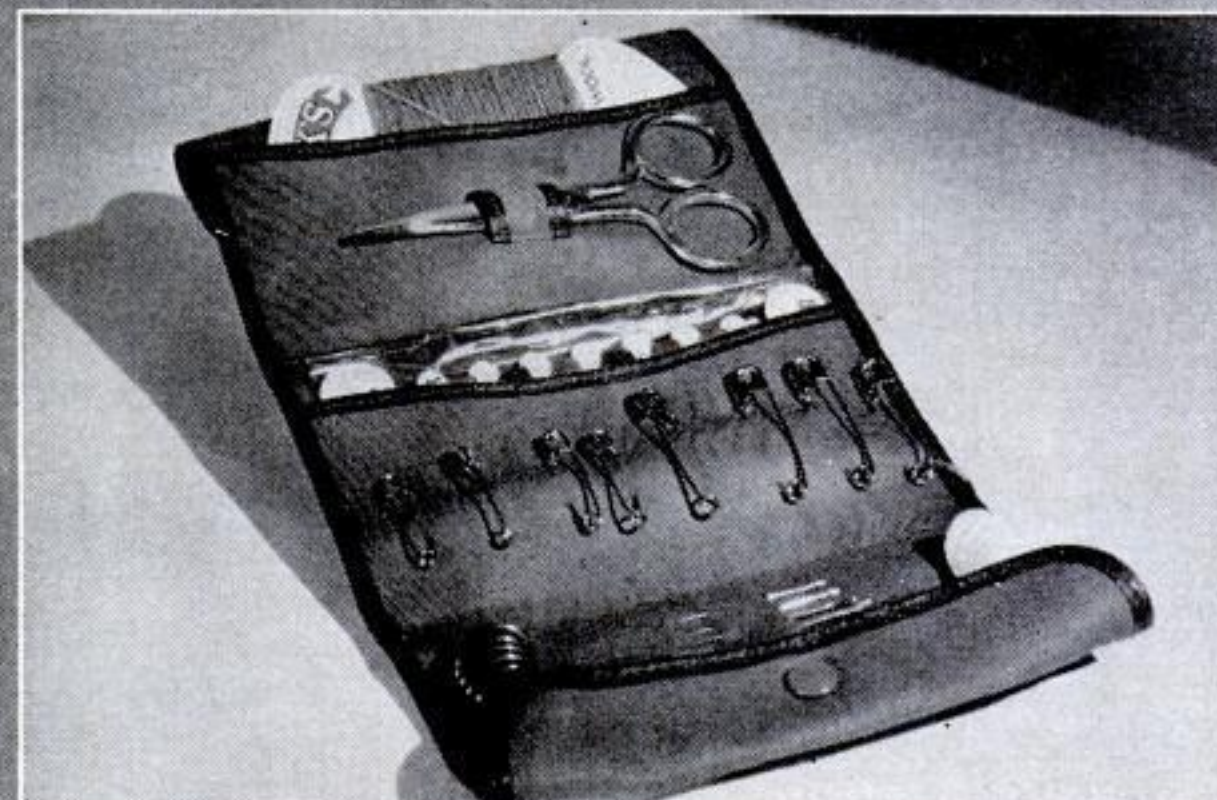
Service Gifts (continued)



Toilet kit with comb, nail file, large package of razor blades, is manna to most men. They also like automatic blade sharpeners and metal mirrors.



Photographs of family and friends are sentimental desire of half the soldiers polled, three-quarters of the sailors. Frame should be unbreakable.



Sewing kit (completely fitted) is high on lists of men who now have to do their own mending and darning. They want pocket-size first-aid kits too.



Rough towels, large and small, are unexpected item among Army and Navy requests. Almost as surprising is Navy's great (58%) demand for Bibles.

CONTINUED ON PAGE 48

***"Come and get us, Pullman,
we're moving out tonight!"***



Courtesy United States Marine Corps

Copyright 1942, The Pullman Co.

Keep your pledge to buy War Bonds and Stamps . . . Pullman employees are keeping theirs!

FORTY-EIGHT hours ago, Pullman got orders to move these 3800 Marines from their training base to Camp Censored, 1500 miles away:

That means 100 sleeping cars—*quick!*

So Pullman's Chicago "nerve center" goes into action. On constant "alert," this office—with its 78 branches—knows where every Pullman car is and what it's doing at any given moment.

Out go orders to one car here, another there; to three or four or five being held in reserve at other places. The troop train is assembled from a score of different points, so that civilian service may be affected a *little* in many places, rather than a *lot* in few.

Now, the Marines are ready to go. Pullman's ready, too. Each car is stocked with clean linen, fresh water; drinking cups, soap and towels. Each is manned by a smiling porter, eager to do *his* part.

This typical troop movement proceeds smoothly and efficiently—as *all* troop movements *must*. It is described here to show how Pullman does its *number one* job of moving hundreds and hundreds of thousands of troops a month without seriously inconveniencing *you*.

**SLEEP GOING —
TO KEEP GOING —
*Go Pullman***



"SLEPT LIKE A TOP!" says this wartime Pullman passenger, "I always do—whether it's in an upper, a lower or a room. Any type of Pullman space available suits me. And I'm helping *keep* it available by cooperating in the four ways Pullman asks me to. I always: 1. Make reservations early; 2. Cancel unwanted space promptly; 3. Take minimum luggage, and; 4. Go when trains are least crowded."

The Cinderella Story of Badge No. 6003's hands!



Laura Cleveland... Badge No. 6003 at the Sperry Gyroscope Company where she makes airplane instruments for Uncle Sam. Her hands get dirty and roughed up in the daytime, but at night comes a Cinderella change to this attractive girl with soft, appealing hands. Laura knows rough work need not mean rough hands. Like so many of her sisters-in-overalls, she uses Pacquins Hand Cream. She says: "I tried many hand preparations before I found Pacquins. It really takes care of my hands." Women war workers learned about Pacquins from doctors and nurses whose hands also take a daily beating.

Pacquins Hand Cream
was originally created for doctors
and nurses whose hands are in water
30 to 40 times a day



Laura says: "I keep Pacquins at work and use some after each rest period. It protects my hands and feels so cooling and soothing. I also use Pacquins on my hands and lips before my date in the evening. I've had lots of compliments on my hands."



"I always use Pacquins on my hands and lips before going to bed, also on any other spots that seem dry," says Laura. "It doesn't feel greasy or rub off on clothes." When she uses Pacquins on hands, she works it carefully around her nails.

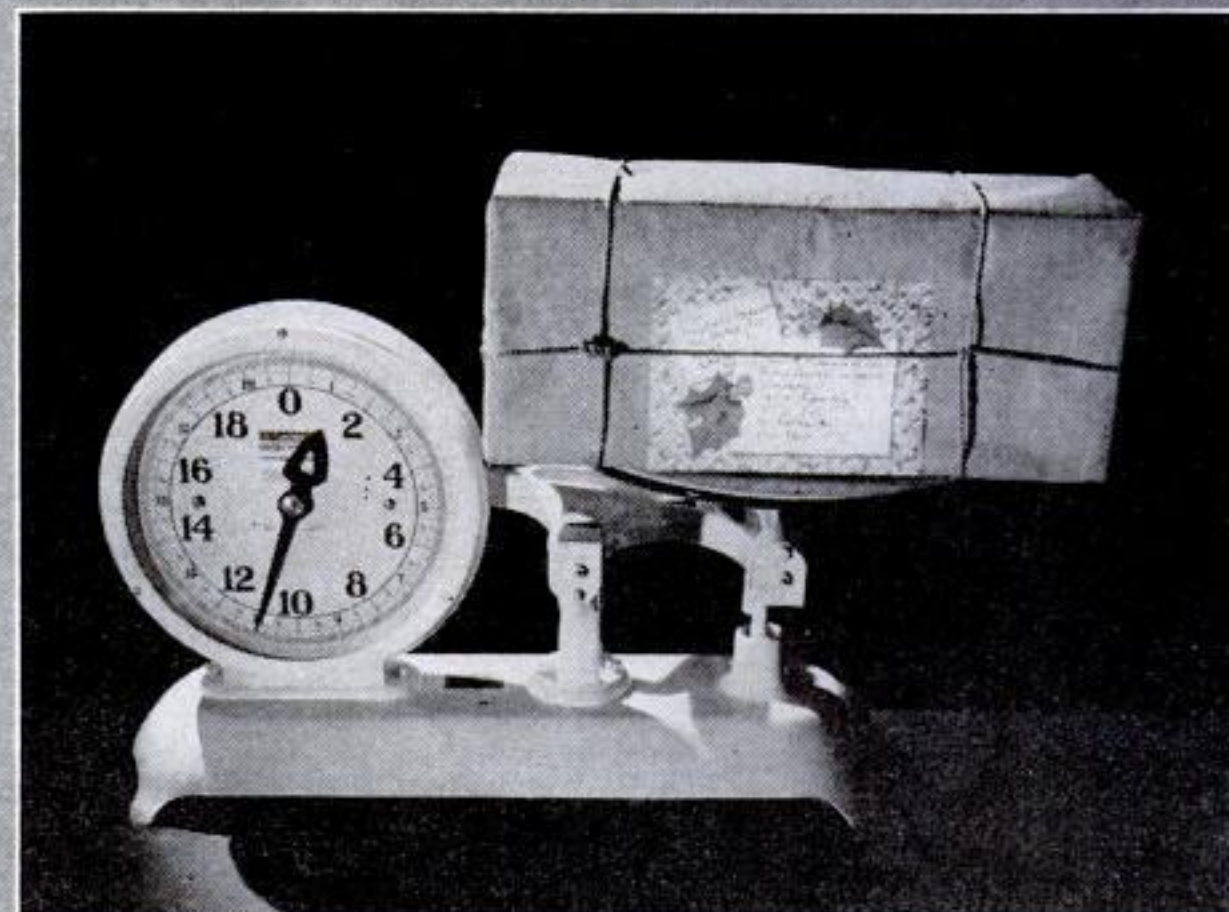
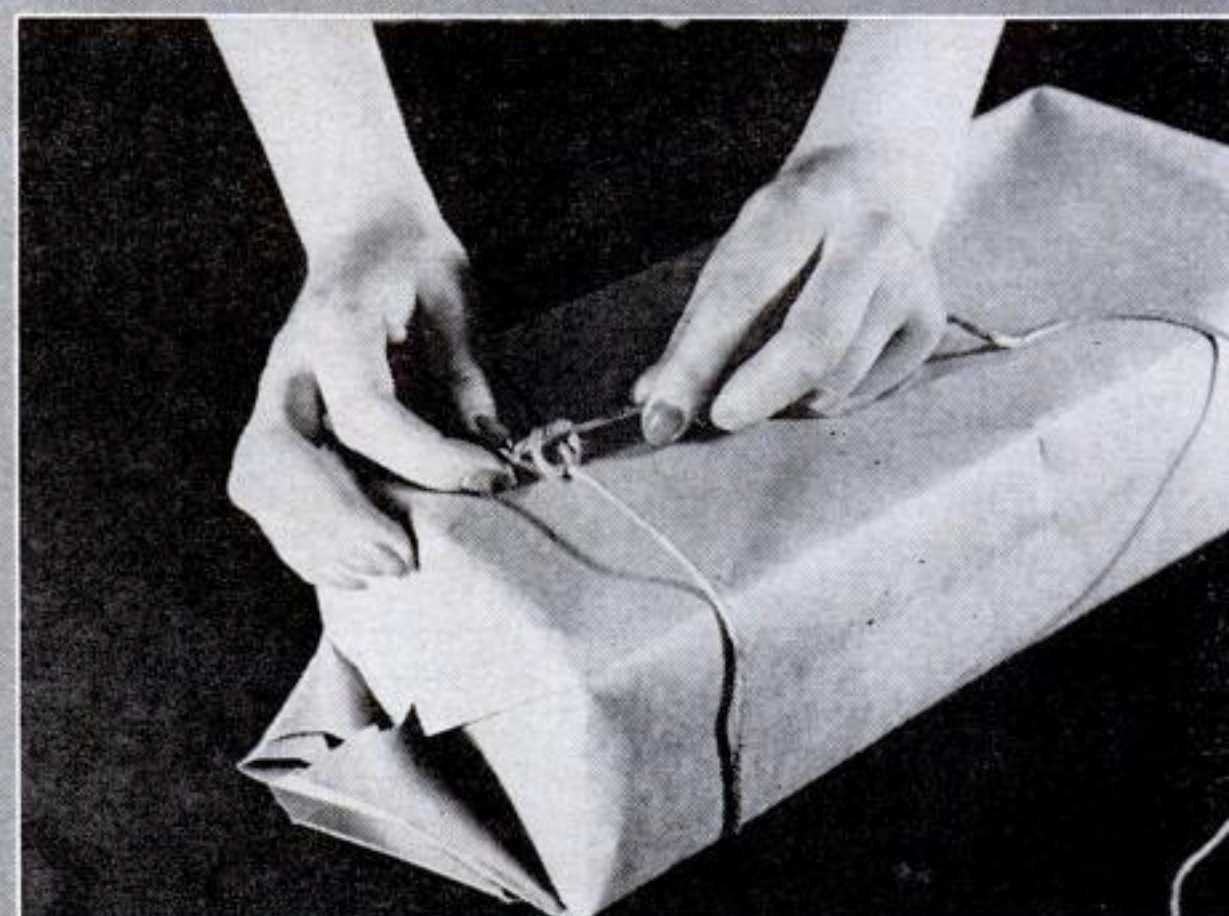
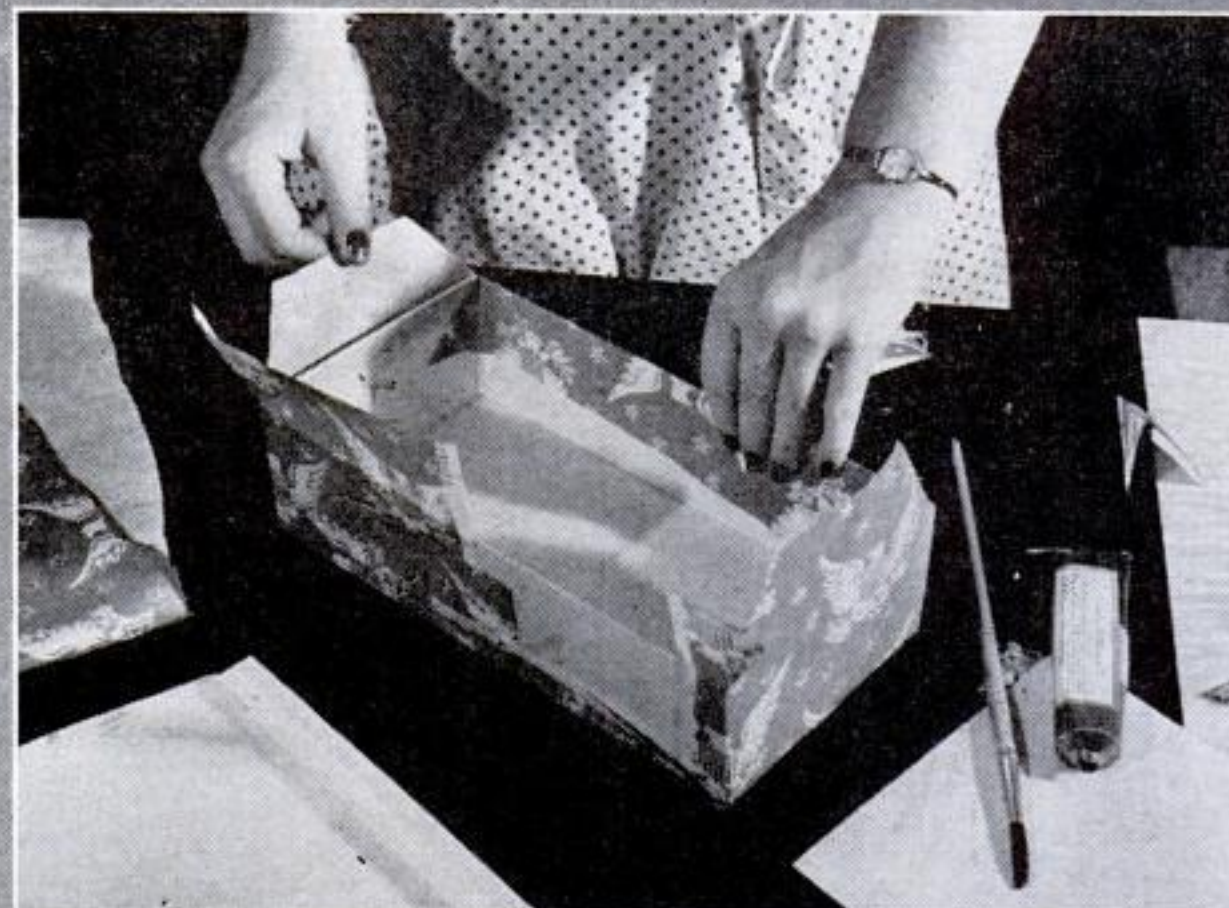
**More women workers in war industries
use Pacquins than any other hand cream**



• Probably *your* hands' beauty hazards are dishwashing, cleaning, scrubbing. Pacquins Hand Cream can also help keep *your* hands soft and appealing. Follow the simple routine that Laura Cleveland follows. Use Pacquins Hand Cream on hands and lips after washing, before retiring. Pacquins is greaseless... does not show or rub off. Get the protection so many women war workers rely on. Use Pacquins Hand Cream. It's concentrated.

Pacquins
HAND CREAM

Service Gifts (continued)



Shoe-box container, recommended by War Department, may be dressed up if trimming does not hamper censor's inspection. Heavy string should be anchor-knotted. The address must include all available military data.

Belle of the Ball

-eats her milk, too!

Who could resist such food! Icy cold... satin smooth. Light as a cloud—if clouds were peppermint flavor.

Wise mothers know it's easy to solve the dessert problem. Simply make desserts you *want* them to eat! Milk-rich desserts from nourishing, digestible Carnation Milk. Desserts that say "Party!" to the young—but whisper "Healthful" to mothers. Because it's just as good to *eat* milk solids as to *drink* them.

Carnation is fine whole cow's milk, with nothing removed but part of the natural water. It has extra enrichment with "sunshine" vitamin D. You keep all the milk values, when you cook with Carnation. Actually get *double* values, when you use it undiluted.

Milk dawdlers go for delicious creamed soups and vegetables, as well as desserts, made with Carnation. Every time you cook with it you're fitting right into the Government's Nutrition Program... saving money... saving time.

Line up a convenient row of red and white Carnation cans in the pantry. They'll turn the trick for you!



PEPPERMINT MOUSSE

1 tall can Carnation Milk, undiluted
 ½ cup white corn syrup
 2 egg whites
 Few grains salt
 1 cup finely crushed peppermint stick candy (4 oz.)
 (For deep pink color—use vegetable coloring or cinnamon drops.)

Chill milk thoroughly. Whip until very stiff. Beat in the syrup, egg whites and salt quickly. Stir in the candy and pour at once into cold freezing trays. Yield: 2 quarts.

FREE! 48 pages of milk-rich recipes, and menu suggestions for all ages. Full of helpful hints and delicious, healthful dishes that help the whole family *eat* milk. Send a post card with your name and address for your copy of "Growing Up With Milk." Address Carnation Co., Dept. L-13, Milwaukee, Wis.—or Toronto, Ont.



TUNE IN THE CARNATION "CONTENTED HOUR" MONDAY EVENINGS, NBC NETWORK

IRRADIATED
Carnation Milk
 "FROM CONTENTED COWS"



WHAT TO DO ABOUT

1. IF YOU SAVED LAST WINTER'S ANTI-FREEZE

Some of the ingredients of "Prestone" anti-freeze will last from one winter through the next—those, for example, which protect the car against freeze-up. But to give protection against freeze-up is only one function of a good anti-freeze. A good anti-freeze also performs other functions, just as important. One of these is to guard against rust and corrosion... which is why all good anti-freezes are "inhibited." These inhibitors do wear out; and when that happens the car is no longer protected against clogging and overheating caused by rust.

That is one of the reasons why you cannot use an anti-freeze indefinitely... why, for instance, we guarantee "Prestone" anti-freeze for "a full winter's use," and no more. *New, fresh anti-freeze is always to be preferred over anti-freeze which has gone beyond a single winter's driving.*

If, however, you decide to re-use your anti-freeze, take the following precautions:

If you stored your anti-freeze during the summer, take it to your dealer *before* putting it back in the car. There are two good reasons.

A *To make sure that no dirt or foreign matter has spoiled it.* (Cans frequently rust through from the outside and from the bottom.) Dissolved impurities will later cause rusting and radiator clogging. If your solution is brown or rusty-looking, don't bother to take it to your dealer but discard it at once. Be extremely cautious in this regard. Your car is a valuable property: it is in the interest of sound conservation to take all reasonable precautions.

B *To have the strength checked.* You don't know, definitely, what concentration you had at the end of the season. If your anti-freeze was "alcohol base," you almost certainly lost strength before you took it out last spring. Even if you used "Prestone" anti-freeze, which

contains no boil-away alcohol, have the strength checked just the same. You may have lost protection through careless filling, slop-over at the over-flow pipe, and leaks caused by road-shock and wear-and-tear during driving.

IF you left your anti-freeze in your car, and have been driving with it all through the summer, point B becomes even more important, for obvious reasons.

These precautions are the very least you can take to protect your car. Remember, none of them will put back into the anti-freeze the rust and corrosion inhibitors which were there when you bought it last fall, and which have since been used up. This is one of the sound technical reasons why manufacturers guarantee an anti-freeze for only one winter's driving.

2. IF YOU DID NOT SAVE LAST WINTER'S ANTI-FREEZE

See your dealer at once and get "Prestone" anti-freeze installed in your car. As of the date this advertisement goes to press (approximately July 15th) it appears that there will be enough "Prestone" anti-freeze this fall—after Army, Navy and lend-lease requirements have been met—to supply all regular users. We make this prediction because we have increased our manufacturing facilities and because there will be fewer cars on the road this coming winter.

HAVE YOUR DEALER CHECK YOUR CAR for leaks, rust, sediment, or loose connections which may have developed during summer driving. Make sure your "Prestone" anti-freeze is used in a clean, tight cooling system. Then you can *forget* the anti-freeze problem for the rest of the winter. You will be protected completely—against freeze-up, boil-away, dangerous and obnoxious fumes, rust and corrosion. You can place complete confidence in new, fresh, full-strength "Prestone" anti-freeze. It is *guaranteed* for one full winter season.

Product of NATIONAL CARBON COMPANY, INC.
Unit of Union Carbide and Carbon Corporation



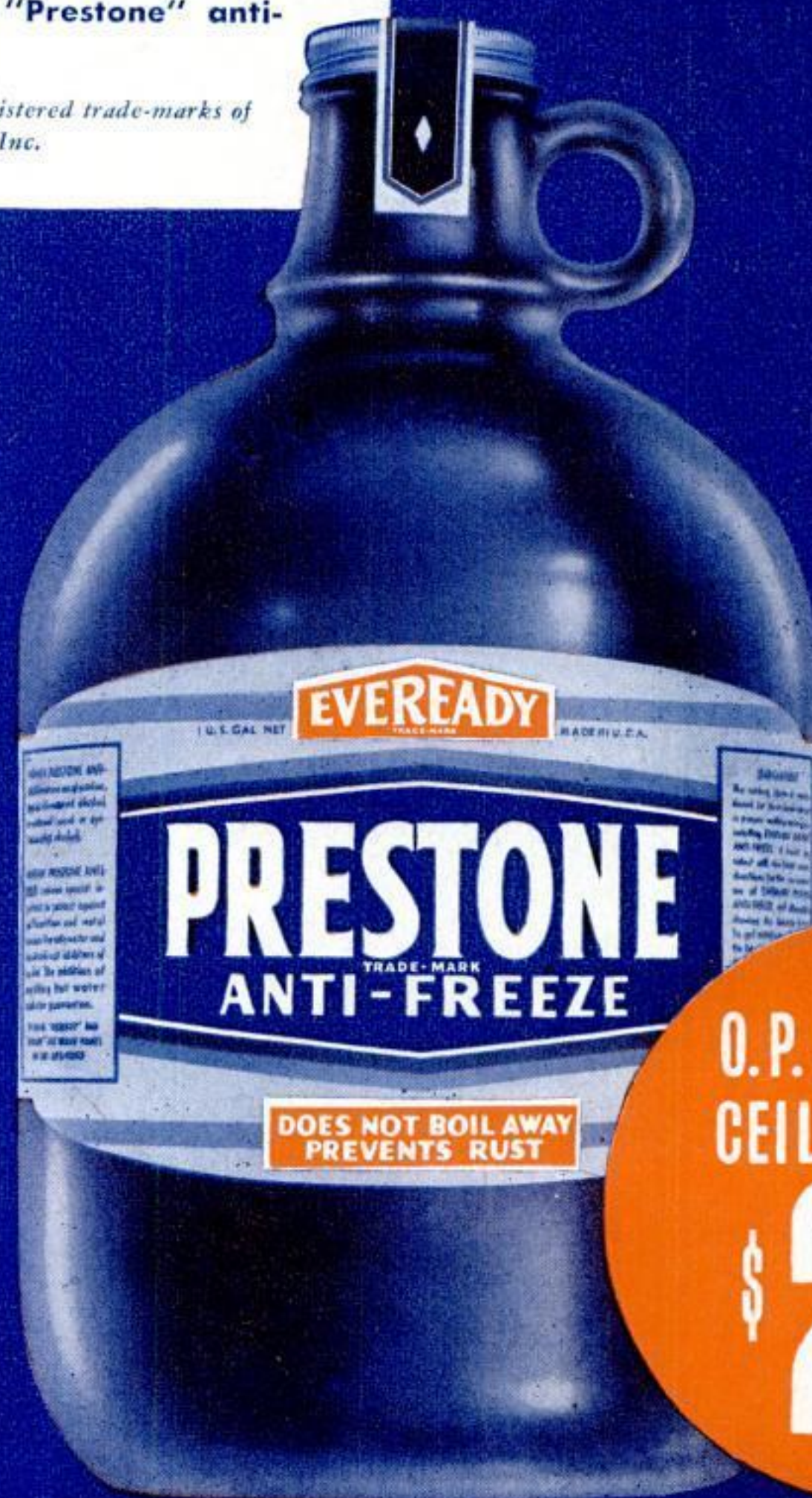
General Offices: New York, N. Y. Branches: Chicago and San Francisco

ANTI-FREEZE THIS FALL



IT'S THE SAME "PRESTONE" ANTI-FREEZE, no matter which container it comes in—metal can or glass jug. To conserve metals for wartime use, the familiar "Prestone" anti-freeze can was discontinued early this season, and the sturdy new glass jug was substituted. Your dealer may have cans or jugs or both. Buy either. No difference in the "Prestone" anti-freeze they contain.

The words "Eveready" and "Prestone" are registered trade-marks of National Carbon Company, Inc.



O.P.A. RETAIL
CEILING PRICE

\$ **2.65**
PER GALLON

PRESTONE

TRADE-MARK

ANTI-FREEZE

YOU'RE SAFE AND YOU KNOW IT..... ONE SHOT LASTS ALL WINTER!



Fresh from the fields



*New Crop of Niblets Brand
Whole Kernel Corn*

Packed only by Minnesota Valley Canning Co., headquarters, Le Sueur, Minnesota, and Fine Foods of Canada, Ltd., Tecumseh, Ontario, Canada

"NIBLETS" BRAND REG. U. S. PAT. OFF.



BLONDE, BLUE-EYED FRIENDLY ROSEMARY WILLIAMS IS 12 MONTHS OLD, WEIGHS 25 LB., HAS $3\frac{1}{2}$ TEETH, CRAWLS BUT CAN'T STAND, DRINKS FROM CUP WITH TWO HANDS, WAVES BYE-BYE

BABIES

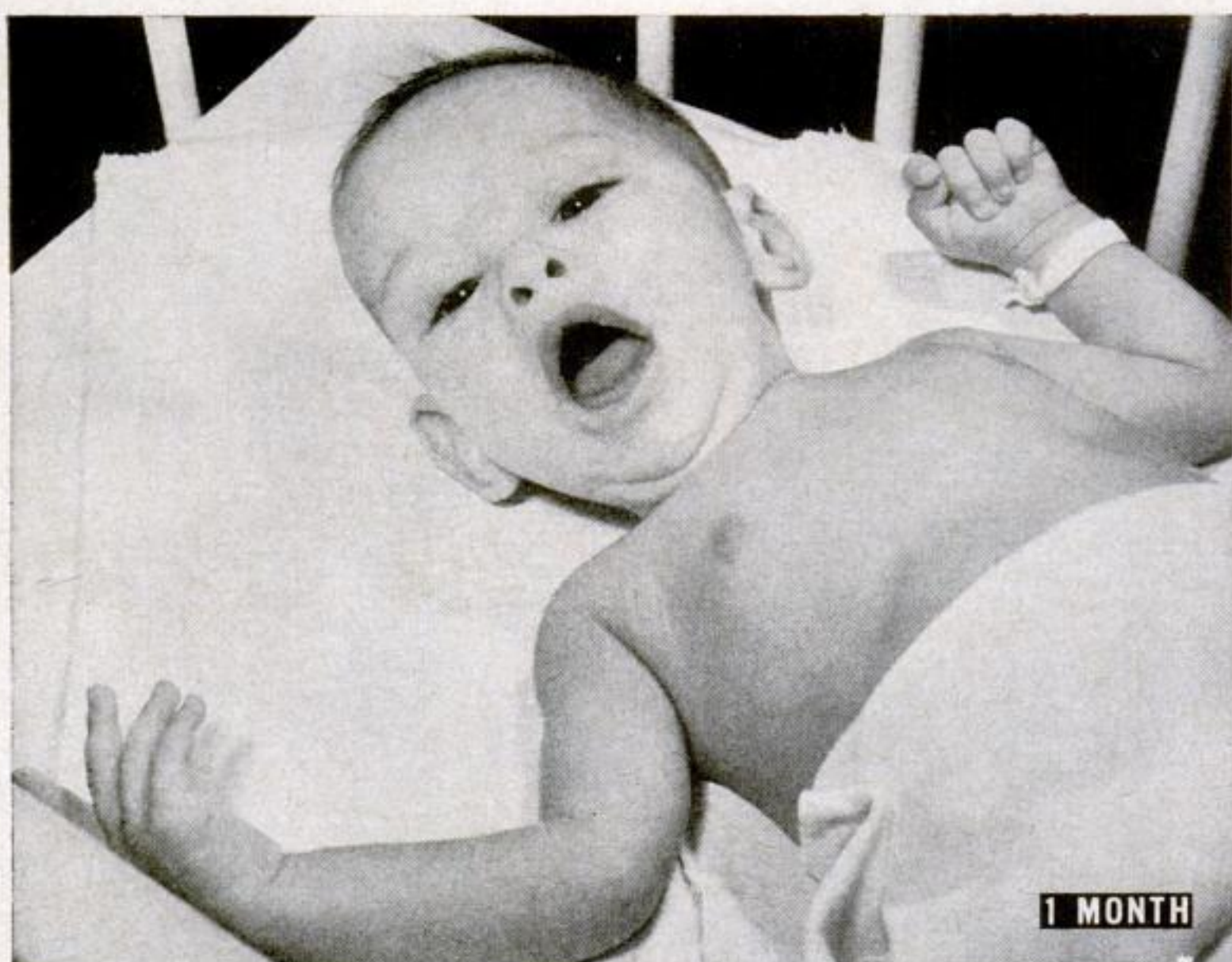
Pictures from one month to 24
Show parents what to expect of
their babies at different ages

This year hundreds of thousands of young American couples are living through the baffling, frightening, happy experience of first parenthood. More babies are being born than ever before in U. S. history. A first baby is a strange, mystifying creature. The lower animals, guided by instinct, not intellect, readily set about the business of taking care of their young. *Homo sapiens*, habitat U. S. A., however, has read so many books and has listened to so much advice on the subject of baby care that when faced with the problem he is befuddled and inclines to fight his instinct and follow the book.

Modern pediatricians are turning back to the importance of "instinct" in the care of babies. A parent

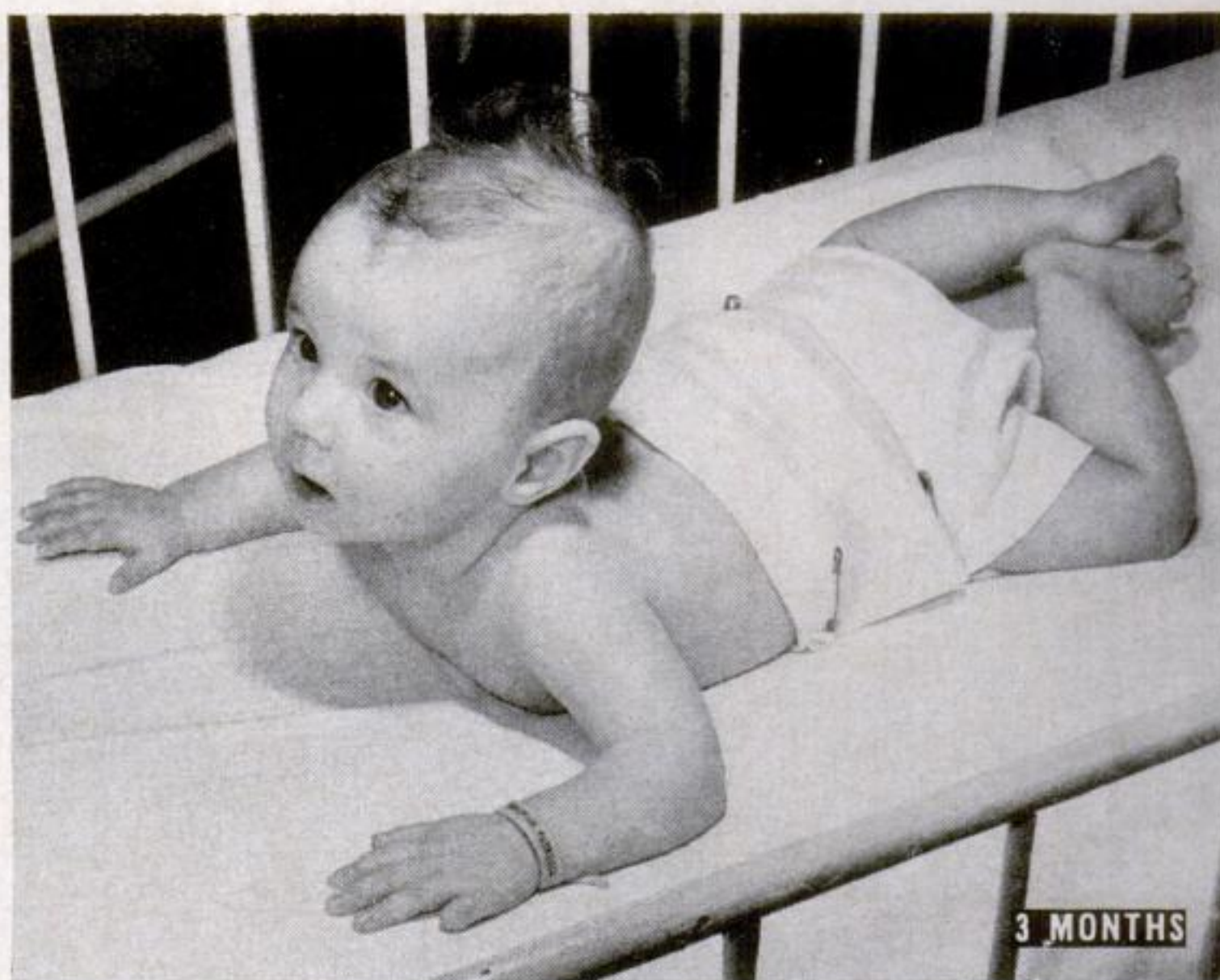
who wants to pick up, cuddle and hug his baby is obeying a natural impulse which is good for both parent and baby. Rigid feeding and training schedules are being discarded in favor of more elastic ones.

Tables of physical and mental development should be interpreted liberally. Nearly all babies, however, follow a set pattern in their development. All babies smile before they laugh, discover their hands before their feet, eat with spoon inverted before they turn it straight, but no two children do these things at precisely the same age. So that first parents may know what to expect of their young during the first two years, LIFE presents on following pages pictures of 20 babies of different ages and the behavior which may be expected of them.



1 MONTH

Yawning, sneezing and coughing are reflex actions infant performs from birth. By sneezing and coughing infant gets rid of excess mucus or throat irritants. It does not indicate he has a cold.



3 MONTHS

Lifting head is as far as he can go. Since most babies can't turn over chances are they'll stay safely put where placed in crib. Parents can truthfully say that their baby smiles at this age.



6 MONTHS

Grasping for toy or any outstretched object is one of the first definite indications that a child's mind is directing his actions.



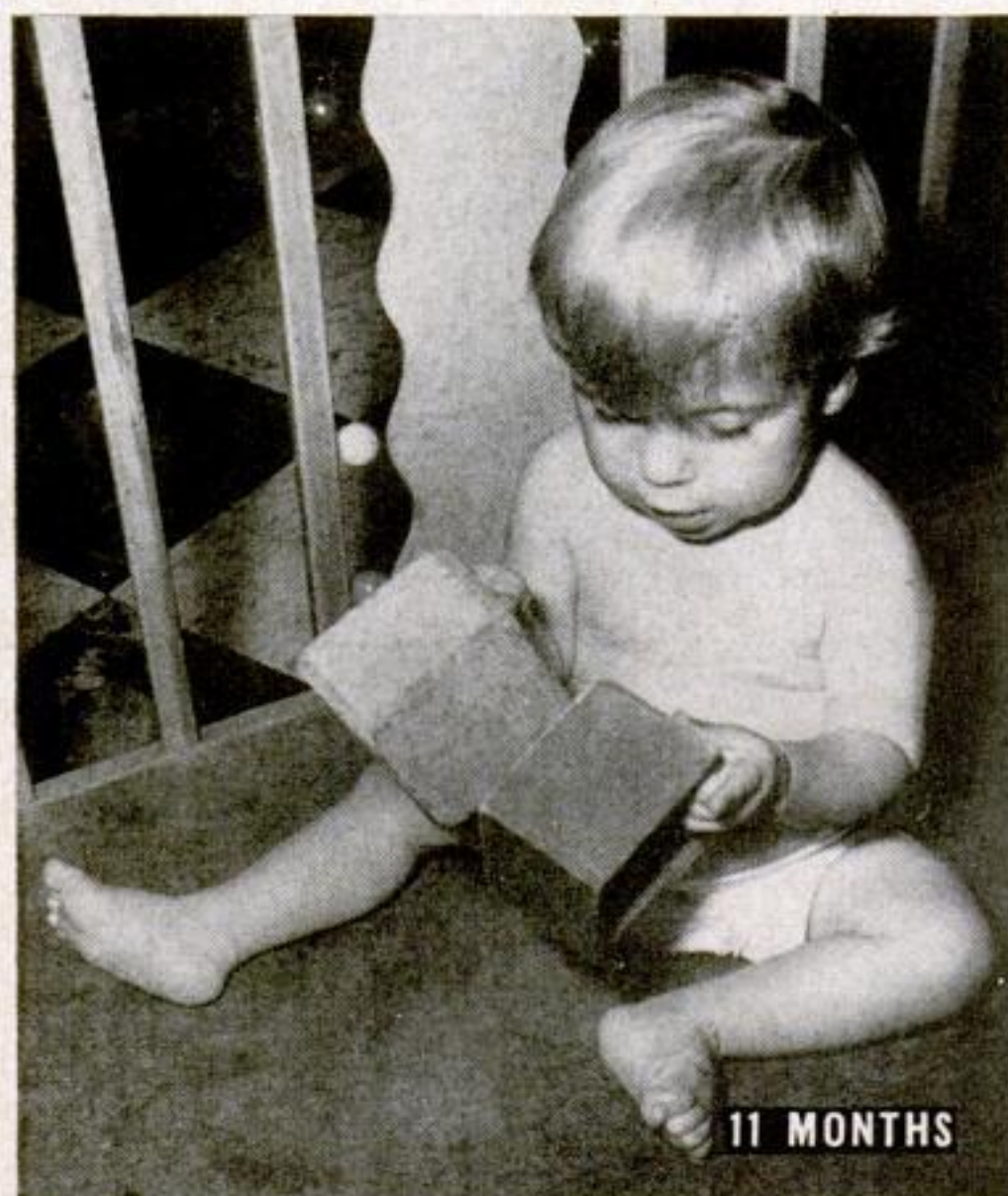
7 MONTHS

Sitting up unassisted is now easy. The child becomes interested in surroundings. Note that this is first child to stare at camera.



8 MONTHS

Drinking from cup, held by adult, is messy business at this age but can be done. Baby now offers objects to grownups.



11 MONTHS

Use of hands really begins at this time. The child pokes, bangs toys, piles blocks, scribbles, begins to show response to music.



12 MONTHS

Standing alone can be achieved but the baby's knees have a tendency to buckle. He is halfway between quadruped and biped.



13 MONTHS

Training may be started at this age for regular bowel movements, but most children still wet diapers up to 21 months.



4 MONTHS

Discovering his hands is a great adventure. The baby now will also hold and shake a small toy if it makes a noise, may drop it if silent.



5 MONTHS

Feet in hands and mouth is a great trick at this time. He also begins to laugh as he plays and will also respond to the human voice.



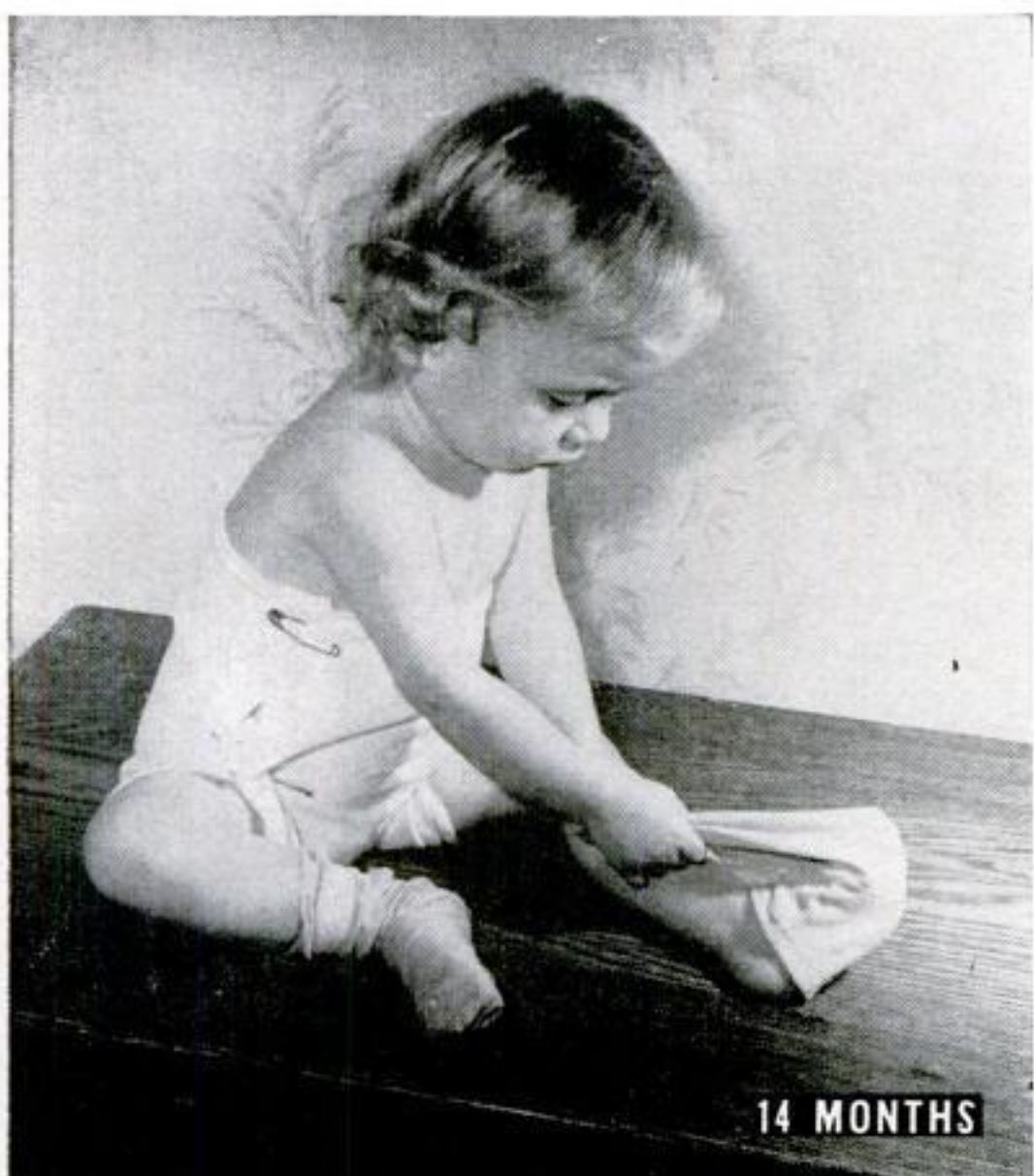
9 MONTHS

Crawling on all fours is gradual process. Earlier, majority of babies will squirm on stomach before they reach the hand-and-knees stage.



10 MONTHS

Standing with help may now be attempted. The baby will be aware of two or more things at one time, may respond to his own name.



14 MONTHS

Copy-cat period now begins. The child notices others, tries to imitate their actions, begins to help with dressing, pulls off sock, etc.



15 MONTHS

Walking alone may be mastered at this time or not until later, depending on weight and whether child is cautious or enterprising.

LONGINES

*the most honored
watch for a
Lady*



A Longines Watch for a lady is much more than a charming jewel-like ornament. Within the beautifully wrought case is the Longines "Observatory Movement", a work of incredible precision, and unbelievable accuracy and dependability considering its tiny size. The photos of the Longines Watch and movement above are both greatly enlarged. The watch is one of several in the smart round design.

Longines

THE WORLD'S MOST HONORED WATCH

The established prestige and reputation of Longines Watches have resulted in a demand today that is greatly in excess of necessarily restricted production. Your Longines jeweler will be glad to show you the Longines Watches that are available, and all have the dependable Longines "Observatory Movement". Longines Watches have won ten world's fair grand prizes, 28 gold medals and more honors for accuracy than any other timepiece. You may also be interested in a companion watch, the Wittnauer, outstanding for value in the moderate price field—product of Longines-Wittnauer Watch Company, New York, Montreal, Geneva.

*Trade Mark Registered U.S. Pat. Off.

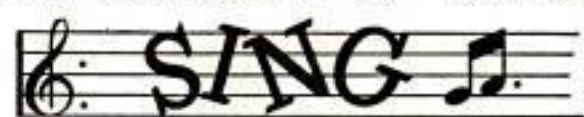


Longines Watches have won 10 world's fair grand prizes, 28 gold medals

CONTINUED ON NEXT PAGE



To make a salad



Accompany it with Triscuit

*Serve a salad all alone
And you miss its subtle tone—
Lady, please don't risk it—
Serve it up with TRISCUIT.*

CRISP, ZESTY-FLAVORED WAFERS of toasted whole wheat, TRISCUIT are exciting relish-lenders to salads, soups and drinks of all kinds. Under moist canape spreads they never wilt. Open your first package, eat one, and then *try* to stop. Ask for TRISCUIT in single or double packages.

Try This Grand Salad!

2 green peppers 4 slices bacon
4 tomatoes 1/3 cup vinegar
1 small white onion 1/2 teaspoon salt
1 teaspoon chili powder

Chop vegetables. Fry bacon until crisp, chop and add to vegetables. To bacon fat in skillet add vinegar, salt and chili powder. Mix well and pour over vegetables. Serve on shredded lettuce with plenty of TRISCUIT.



Baked by NABISCO . . . NATIONAL BISCUIT COMPANY



SAVES TIME! SAVES WORK! PREVENTS WASTE!

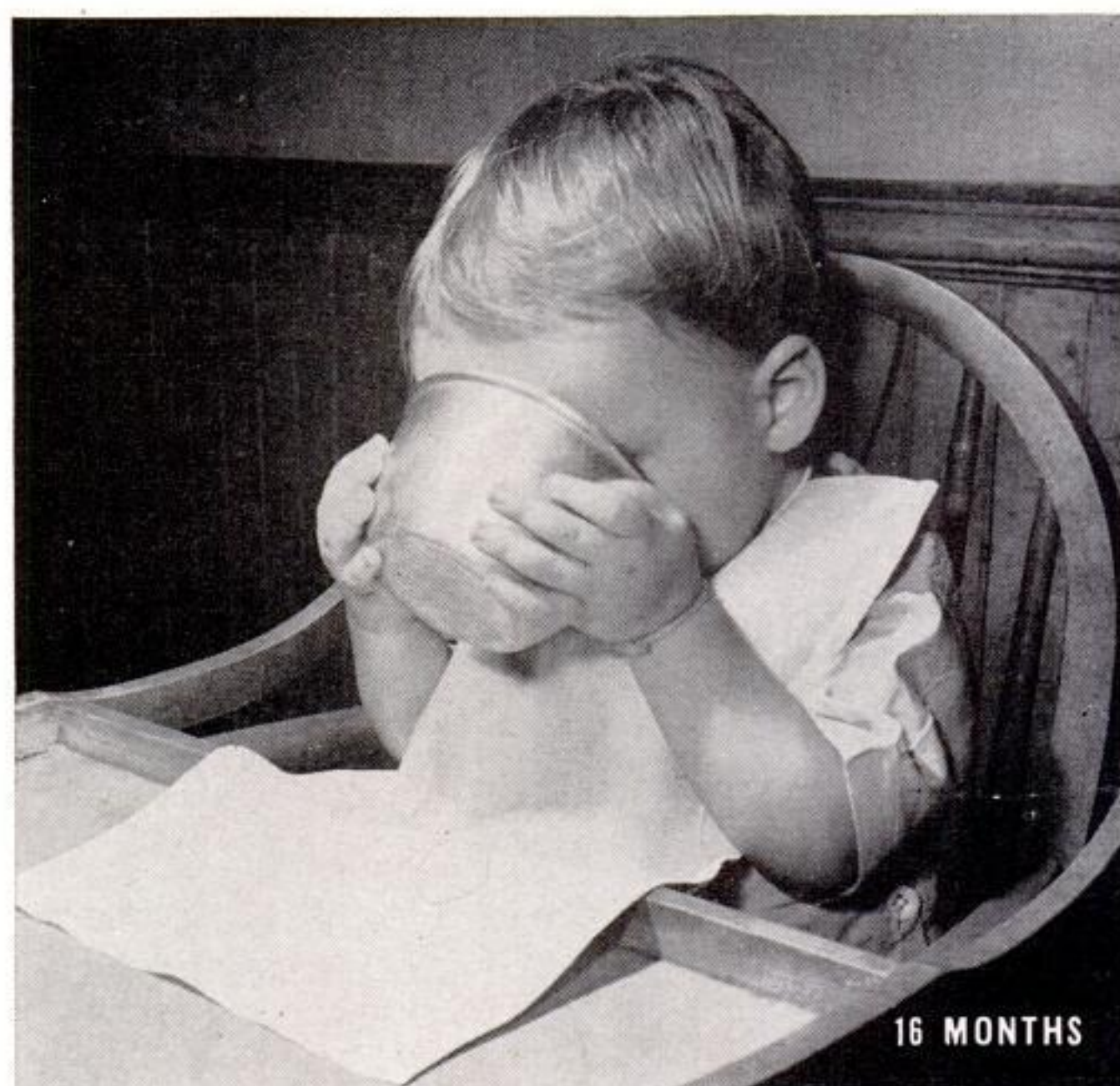
Prevents waste because none is thrown out . . . you make exact amount you need. A Nestlé product, composed of equal parts of skillfully brewed soluble coffee and added carbohydrates (dextrins, maltose and dextrose) added solely to protect the flavor. **CIVILIAN SUPPLY IS LIMITED.** In cans or in glass jars . . . as available.

A TEASPOONFUL IN A CUP ADD HOT WATER IT'S READY

Superb flavor!

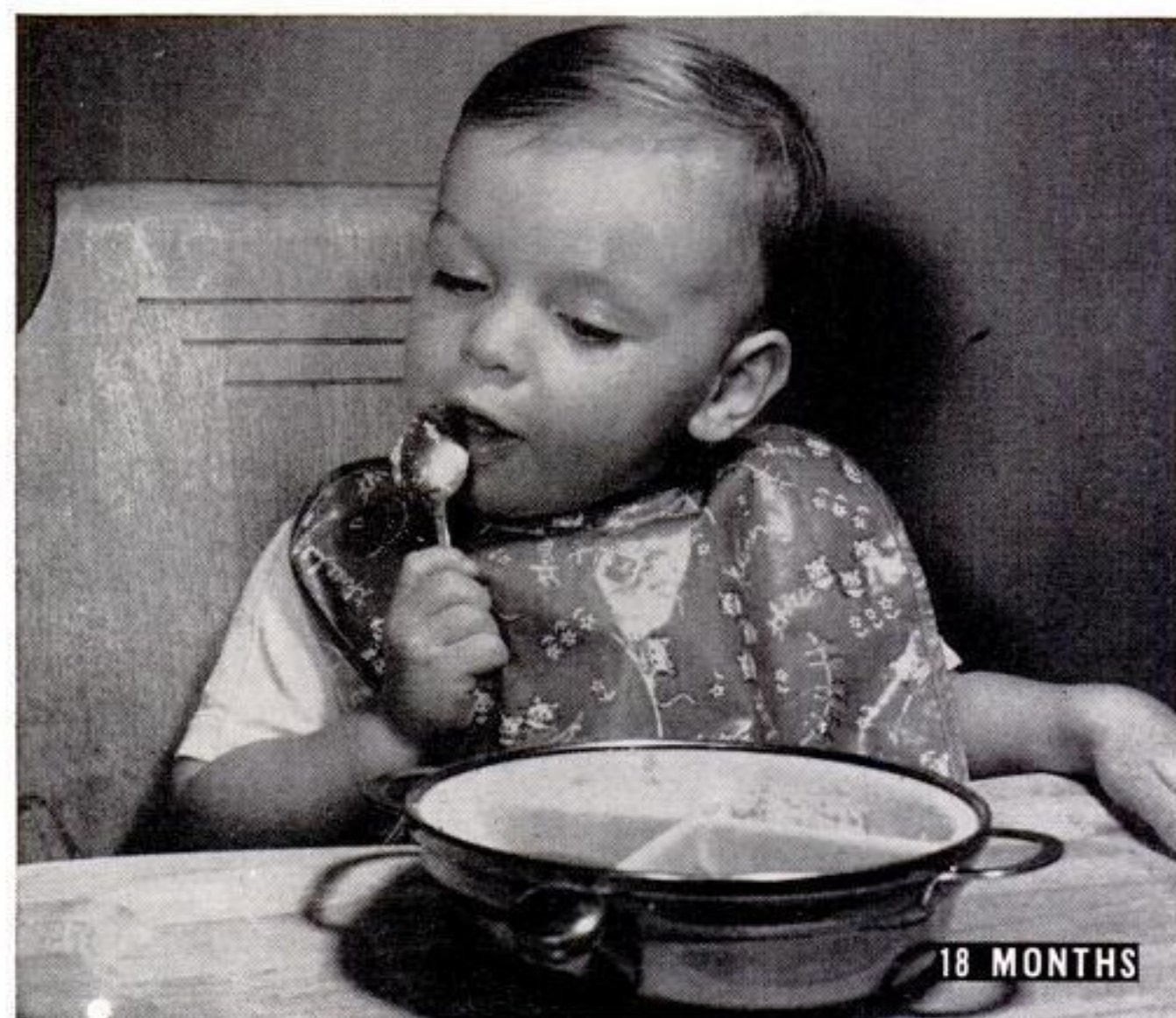
• NESTLÉ'S MILK PRODUCTS, INC. • NEW YORK, U. S. A. •

Babies (continued)



16 MONTHS

Drinking from cup is sloppy but now possible. At first child tries to drain the cup by tilting back his head. As he becomes more adept he uses his fingers to tilt the cup.



18 MONTHS

Eating with spoon is usually done at first with the spoon upside down. Child's greatest difficulty is in filling the spoon. When through, child likes handing dish to mother.



20 MONTHS

Walking downstairs is risky business at first but it can be done. Bump method of descent is preferred for a while longer. Walking upstairs, however, has been mastered.

CONTINUED ON PAGE 58



Your tickets to *inexpensive* recreation

CRISP, COLORFUL little bits of paper—fifty-two in a box. And *very* important they are in these war times. For in the hands of you and your friends, these bits of paper become tickets to inexpensive relaxation.

In a game of cards with the folks next door . . . or a quiet game of solitaire, there's relaxa-

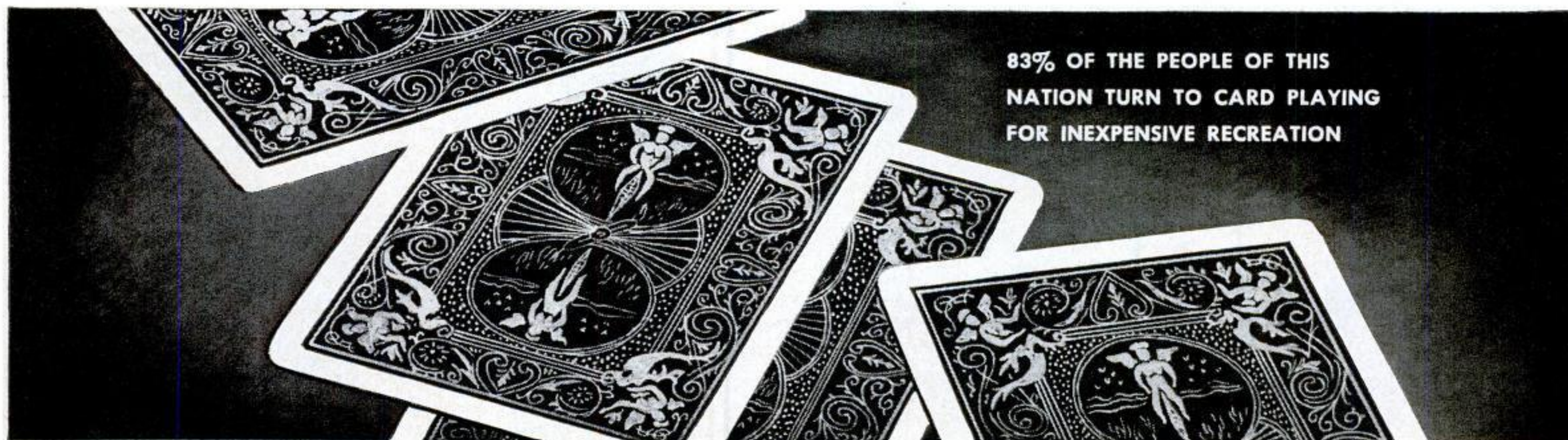
tion for tired nerves. Your energy is recharged . . . your enthusiasm rekindled for the tasks of Victory. And since recreation at home requires no traveling, you save tires and gas . . . and money for War Bonds.

.

Yes, playing cards are tickets to relaxation—the inexpensive kind needed for Victory.

And four-fifths of your fellow Americans are taking advantage of them—finding refreshment and good fun in cards.

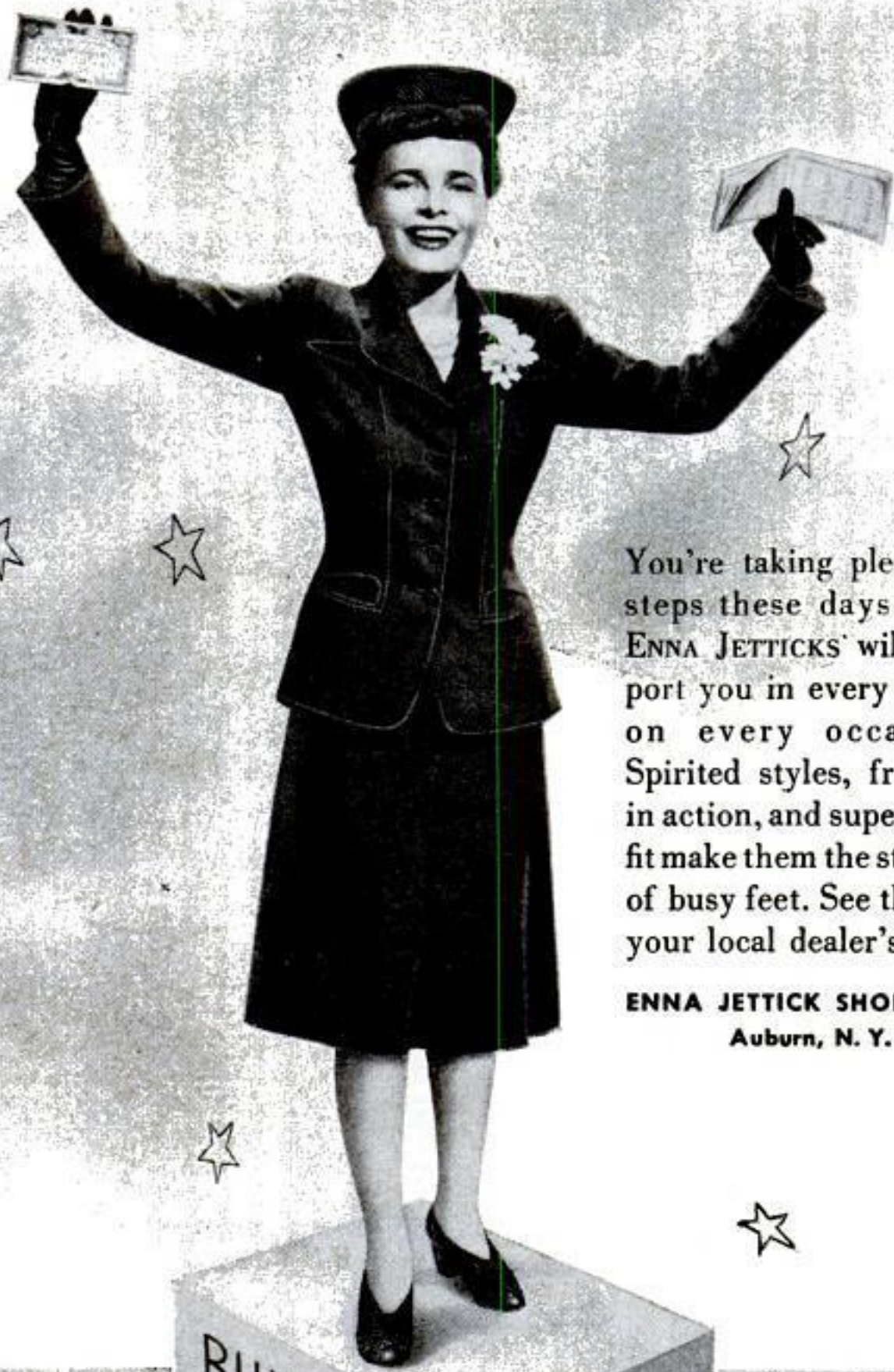
THE UNITED STATES PLAYING CARD COMPANY
CINCINNATI, OHIO
Makers of BICYCLE and CONGRESS Cards



83% OF THE PEOPLE OF THIS
NATION TURN TO CARD PLAYING
FOR INEXPENSIVE RECREATION

Enna Jetticks

stand for **FREEDOM**
in every step you take



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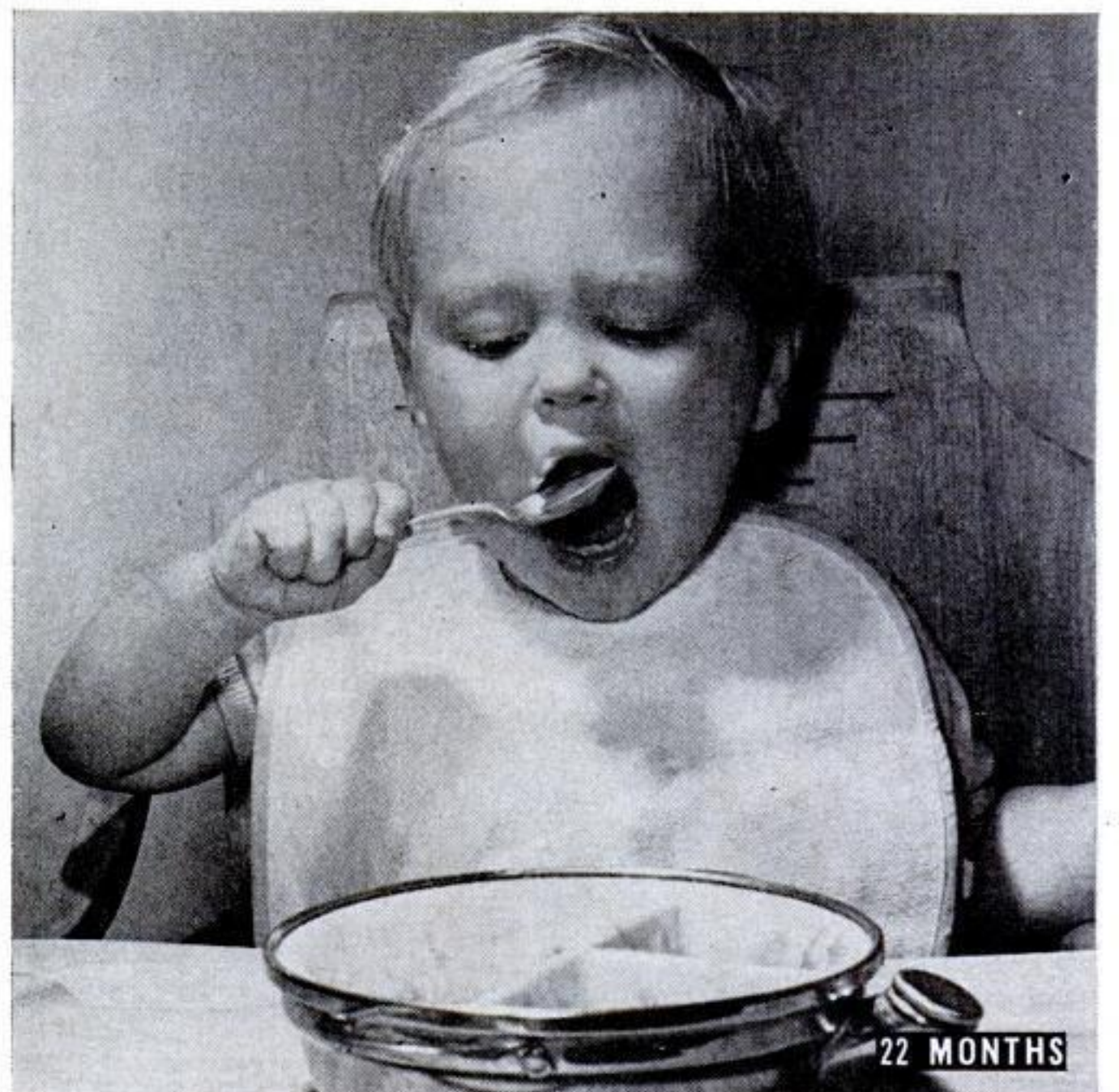
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America's Smartest Walking Shoes

Babies (continued)



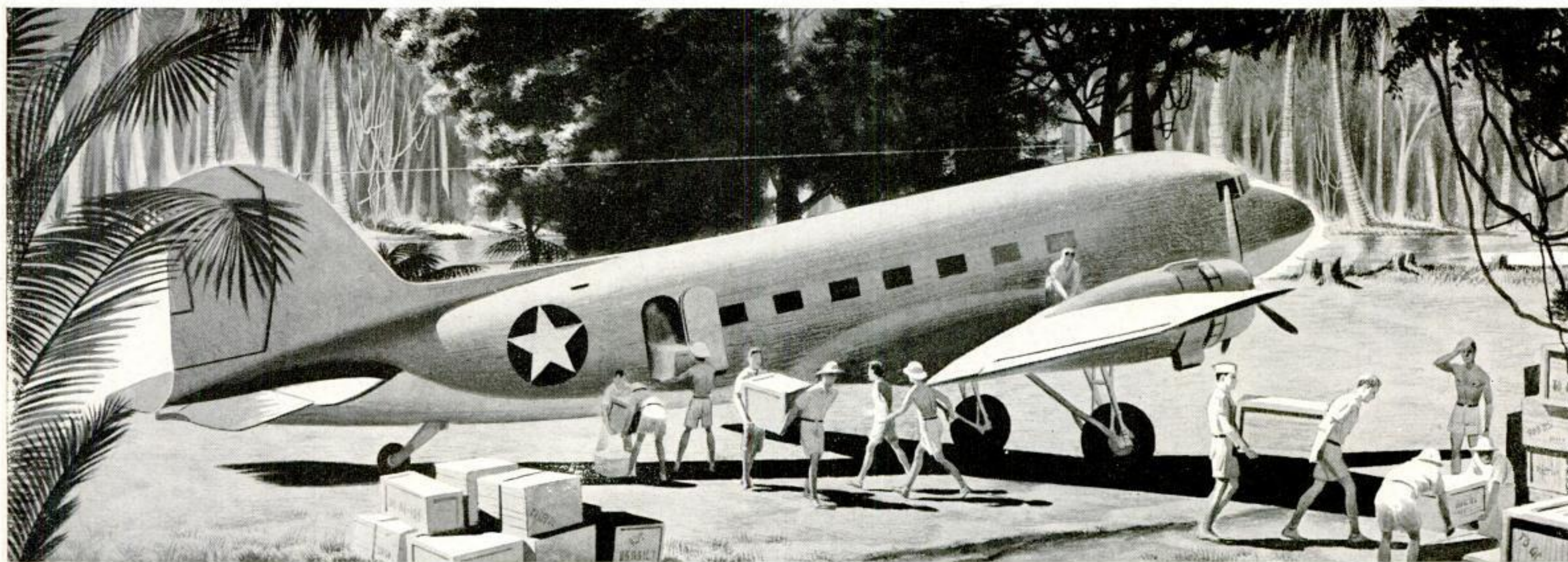
Picture books begin to be interesting. Earlier in his development he may turn a lot of pages for the fun of movement but he usually can't identify pictures until later.



Proper spoon-eating starts now although he still spills food. At this age he is usually ambidextrous, likes changing spoon from right to left hand, sometimes uses both.



Making cut-outs with blunt-end scissors is now safe. His other accomplishments are stringing beads, holding glass with one hand and a vocabulary of about 300 words.



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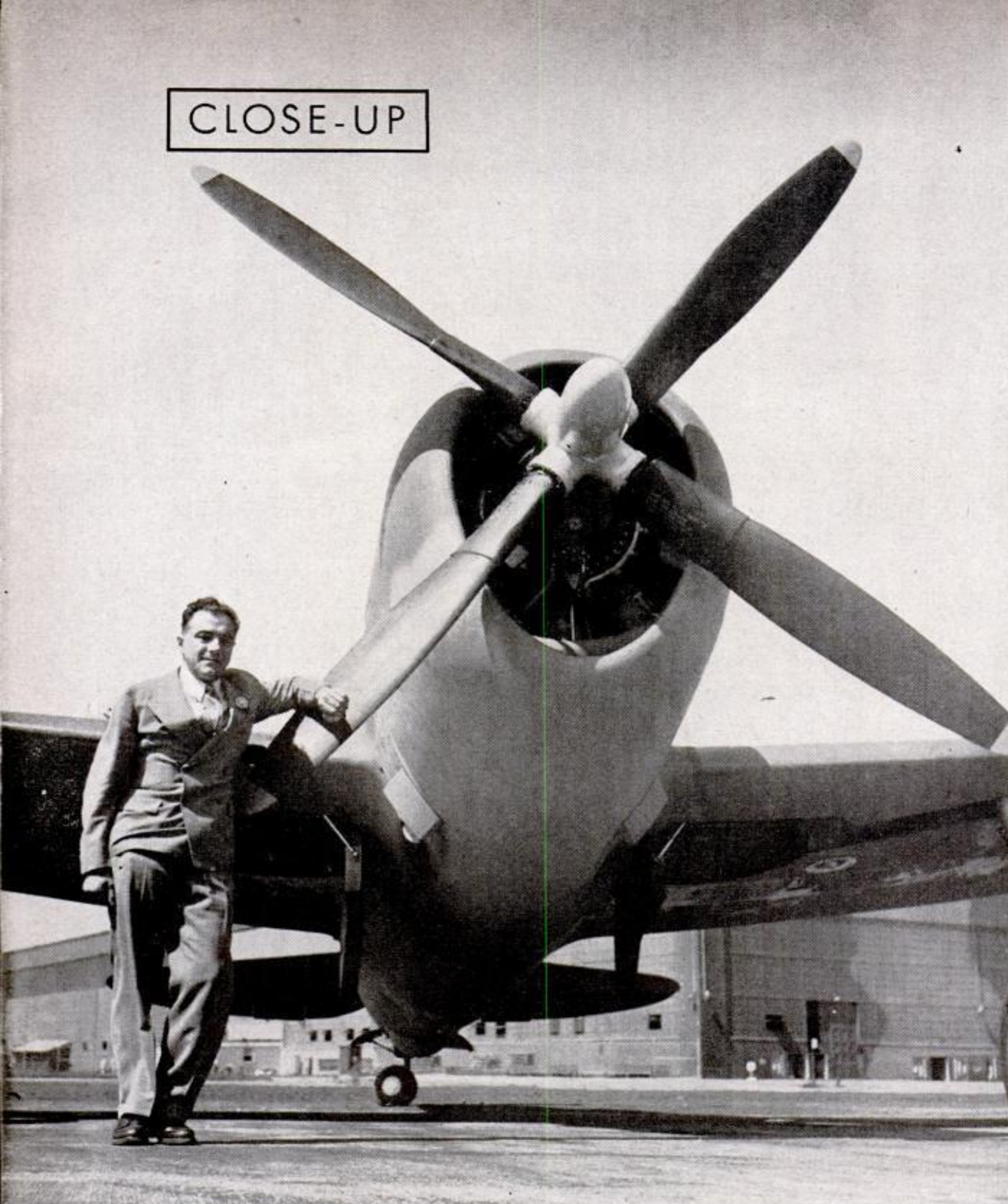
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CLOSE-UP



Sascha and his 47 stand in front of the Republic Aviation factory on Long Island. The airplane's big engine needs a four-bladed propeller to use up its 2,000 hp efficiently. Below: Kartveli broods over his slide rule. He thinks best either at a drafting board or at his desk with slide rule in hand.



KARTVELI

A melancholy Russian designs the P-47, the white hope of the Army's high-altitude fighter planes

by JOSEPH KASTNER

The airplane that Alexander Kartveli, chief engineer and vice president of the Republic Aviation Corp. of Farmingdale, Long Island, designed for the U. S. Army Air Forces is known unofficially as the Thunderbolt and officially as the P-47. The P-47 is just about the most important pursuit ship being built today in the U. S. It can fly higher and faster and for longer distance than any other pursuit ship the U. S. Army has. In a test dive, it has gone faster than any Army airplane ever has gone. It dived at 680 m. p. h. The pilot who flew it reported that the 47 went into its dive willingly and came out without balking, which are admirable qualities in an airplane. The P-47 is so important to the U. S. Army that the Air Forces told Republic to put up a new Midwestern factory to build 47's.

But when the merits of the airplane he designed are mentioned to Alexander Kartveli, who is known to his intimate friends as Sascha, he looks sadder than usual. A Russian who speaks with the kind of accent that stage Russians affect, he usually looks sad except when he looks sinister. Talking about the 47, Kartveli will agree with a sigh, "Yessss. Ah nice plane. But eet iss too beeg."

If, however, anybody tells him that his airplane is very pretty, Kartveli's face lights up and he looks almost happy. What Kartveli really likes to do is design beautiful airplanes. The guns and extra tanks and superchargers and all the accessories which make an airplane a fighting machine are to him simply nuisances, demanded by people who don't really love airplanes for themselves alone. Just before he designed the P-47, Kartveli had designed a smaller plane, the P-44. The first model was being built for the Army when suddenly the Battle of France showed the need for certain things that had been largely ignored, such as heavy armament, armor, self-sealing tanks. The Army cancelled the P-44 and demanded something bigger and better, which it eventually got in the 47.

The cancellation almost broke Kartveli's heart. The P-44 was the loveliest airplane he had ever designed, he complained, and now he would never see it built. For months after he kept wandering into the office of Wallace Kellett, chairman of the board of Republic, and bringing up his lamented P-44. "Couldn't we just finish one of the ships," he would plead, "to show how beautiful she is looking and how nicely she is flying?" It was a long time before Kartveli was convinced that production on other planes could not be slowed down just to finish the 44. He still keeps a drawing of the 44 in his office, cherishing it as a sad and beautiful memory, the way another man might remember a loved-and-lost sweetheart.

The U. S. Army now has five models of pursuit ships abuilding. Oldest of them is the Curtiss P-40, which flies well over 300 m. p. h., does its best work at medium altitudes. Next oldest in point of service is the Bell P-39, the Airacobra, which flies around 400 m. p. h., is efficient at 15,000 ft. The two-engine Lockheed P-38 flies around 400 m. p. h. and can fight effectively at over 30,000 ft. The new North American P-51, the Mustang, is a very fast medium-altitude fighter.

The P-47 flies higher and faster

The P-47 can outdo any of these planes. It has been clocked officially at a level speed of over 400 m. p. h. It can fight efficiently up in the stratosphere around 35,000 ft. where the famous British Spitfire and new German Focke-Wulf 190 fight. Its initial armament was eight .50-cal. machine guns.

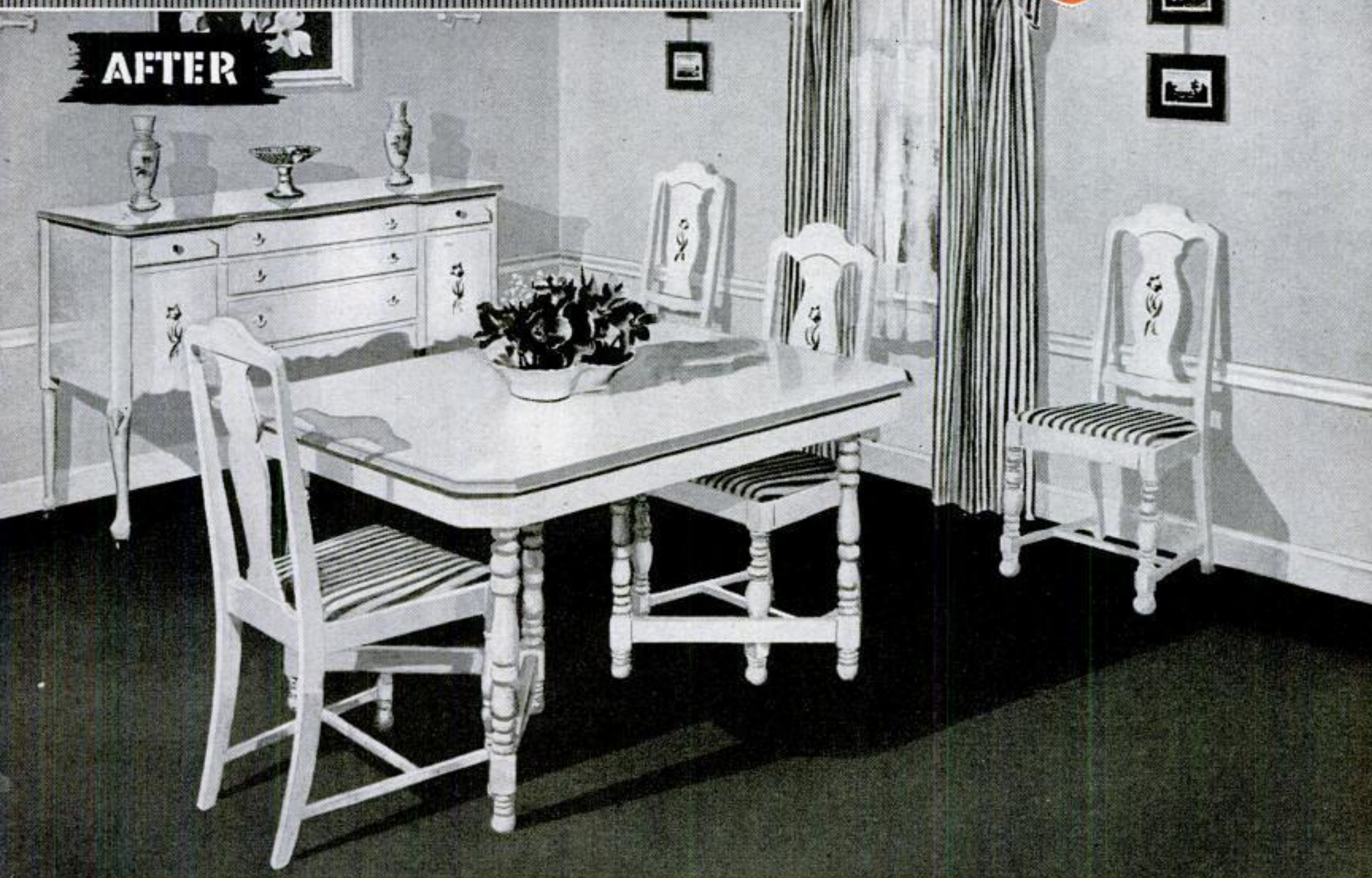
One reason for P-47's performance is that it is a new plane designed after the fighter requirements of this war were analyzed in actual combat. Another reason is that it carries a bigger engine than any other Army pursuit plane, a 2,000-hp air-cooled Pratt & Whitney. Another reason is that it is a very fine job of designing. But to get all the punch and performance into one airplane, Sascha Kartveli had to design a very big airplane. The P-47 weighs around 13,000 lb.—as much as the old 15-passenger, tri-motor Ford transports used to weigh. It is at least a couple of tons heavier than any other single-engined American Army fighter plane.

CONTINUED ON PAGE 62



BEFORE

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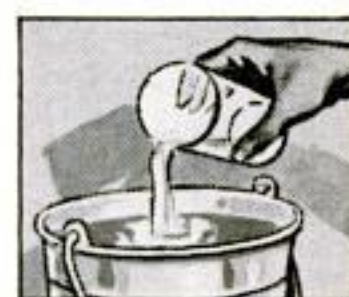
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Mr. and Mrs. Alexander Kartveli loll on the lawn of their pretty house at Huntington, Long Island, only 20 minutes by auto from the plant. Mrs. Kartveli was Mr. Kart-

KARTVELI (continued)

With all its weight and bulk, the 47 is a beautiful bit of aerodynamics. Its wings spread wide from the fuselage, the leading edge coming out straight to the tip, the trailing edge coming back in a slow curve. The fuselage is big and round, interrupted by the cockpit cover just back of the wing, then rushing clean back to the tail which flares up quickly and curves gently down in back. The front wheels are set well out from the fuselage, giving the 47 a curious bowlegged look when it sits on the ground.

In some ways its size is a handicap to the 47. U. S. fighter planes are built solidly and well, with fine protection for the pilot. A Japanese Zero plane, on the other hand, is built with little regard for armor or extra-durable construction. The 47's horsepower gives it a great edge in speed over a plane like the Zero. The handicap of three or four tons of weight, however, makes it less spry than the lighter Zero. But in an airplane, you can't have everything. The U. S. Army is betting on the P-47's power to more than offset its comparative lack of agility.

Of all the people who are dissatisfied with the plane's size, Kartveli himself is most dissatisfied. He is also dissatisfied with the fact that he can never fly in his own plane. There is one particular thing he would like very much to watch in his plane. At very high speeds, according to the pilots, the machine guns in the 47's wings suddenly turn a bright-blue color. Kartveli is fascinated by this phenomenon which he thinks is due to some quirk of electricity. He will never see the blue machine guns, however, because the 47 is a one-seater airplane and Kartveli is not a good enough pilot to fly it himself. He does know how to fly a plane and years ago used to fly quite a bit.

That was in France where Sascha Kartveli landed after the Russian Revolution. Son of a magistrate in the Georgian city of Tiflis in the Caucasus, Kartveli was studying artillery in the military academy in St. Petersburg when the World War broke out. Sent back south to fight the Turks, young Sascha was invalided home with a leg wound when the Treaty of Brest-Litovsk was signed and Russia quit the war. The Georgians wanted nothing to do either with the Red Russians or the White Russians. They set up their own government which sent Kartveli to Paris to finish his artillery studies, the idea being that he would come back and be an artillery expert for the Georgian army. While he was in Paris, however, the revolution engulfed Georgia and Kartveli never went back home.

Kartveli was 23 years old in 1919 when he found himself in Paris without a country or a career. He supported himself for a while teaching mathematics and doing a trapeze act in a circus. Having been a crack gymnast in the military academy, he was very good on



vel's secretary until she married her boss last June. Kartveli gets little time for rest or relaxation these busy days. His working day and working week are both very long.

the trapeze. But as soon as he could, he took up engineering studies and went to work for the Bleriot airplane company, which had been founded by the aeronaut who made the historic cross-Channel flight in 1909. When a plane in which he was testing instruments cracked up, Kartveli broke his neck and fractured a couple of vertebrae. As soon as he was well, Kartveli went back to testing but, as he admits himself, he was too nervous and temperamental and busy ever to be a good pilot.

A flying junkman brought Kartveli to U. S.

In 1927, fate visited Kartveli in the form of Charles Levine, the famous flying junkman who flew to Germany in the plane piloted by Clarence Chamberlin. Kartveli had been doing structural engineering for an aircraft company and was designing planes in his spare time. He showed Levine drawings for a transatlantic airplane. Levine, who was eager to make a career of being a transatlantic hero, promptly hired Kartveli as his personal airplane designer and paid his passage to America.

The building of the Levine plane proceeded under difficulty in a Long Island hangar. There was no testing laboratory, no wind tunnel. The relationship between the ebullient junkman and the melancholy airplane engineer was, in Kartveli's restrained words, "wery wague." Kartveli spoke no English. Levine spoke neither French nor Russian. Each, however, had a halting command of broken German and they managed to find a foggy meeting ground there. The plane was finally built, made a couple of test flights and then burned up in a hangar fire.

In 1931 after an interlude with Fokker, Kartveli became an airplane designer in earnest when Major Alexander P. de Seversky hired him to design planes for the Seversky Aircraft Co. of Farmingdale, Long Island. The Russian Seversky, who today has a great reputation as a prophet of all-out airpower, was very unlike the Russian Kartveli. A bold and enthusiastic salesman, Seversky was ecstatic about any plane he had to sell. Kartveli was modest and had a scientific shyness about praising anything until after he had tried it out. He would shudder at hearing Seversky's sales talks and then would go back to his drafting board to try to design planes that would live up to the performances Seversky had promised.

Seversky has always taken credit for designing the planes he sold. Engineers who have worked under Seversky and Kartveli give Kartveli most of the credit. As they remember it, the major used to come into the engineering room, rattle off half a dozen wonderful ideas for designs, and then boom out. The engineers would look at each other in quiet despair and at Kartveli for comfort. Kartveli would sigh:

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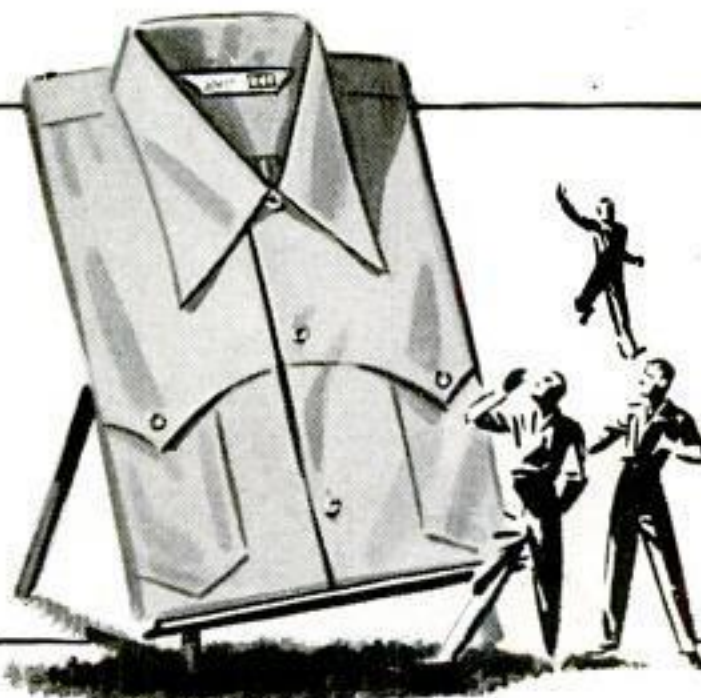
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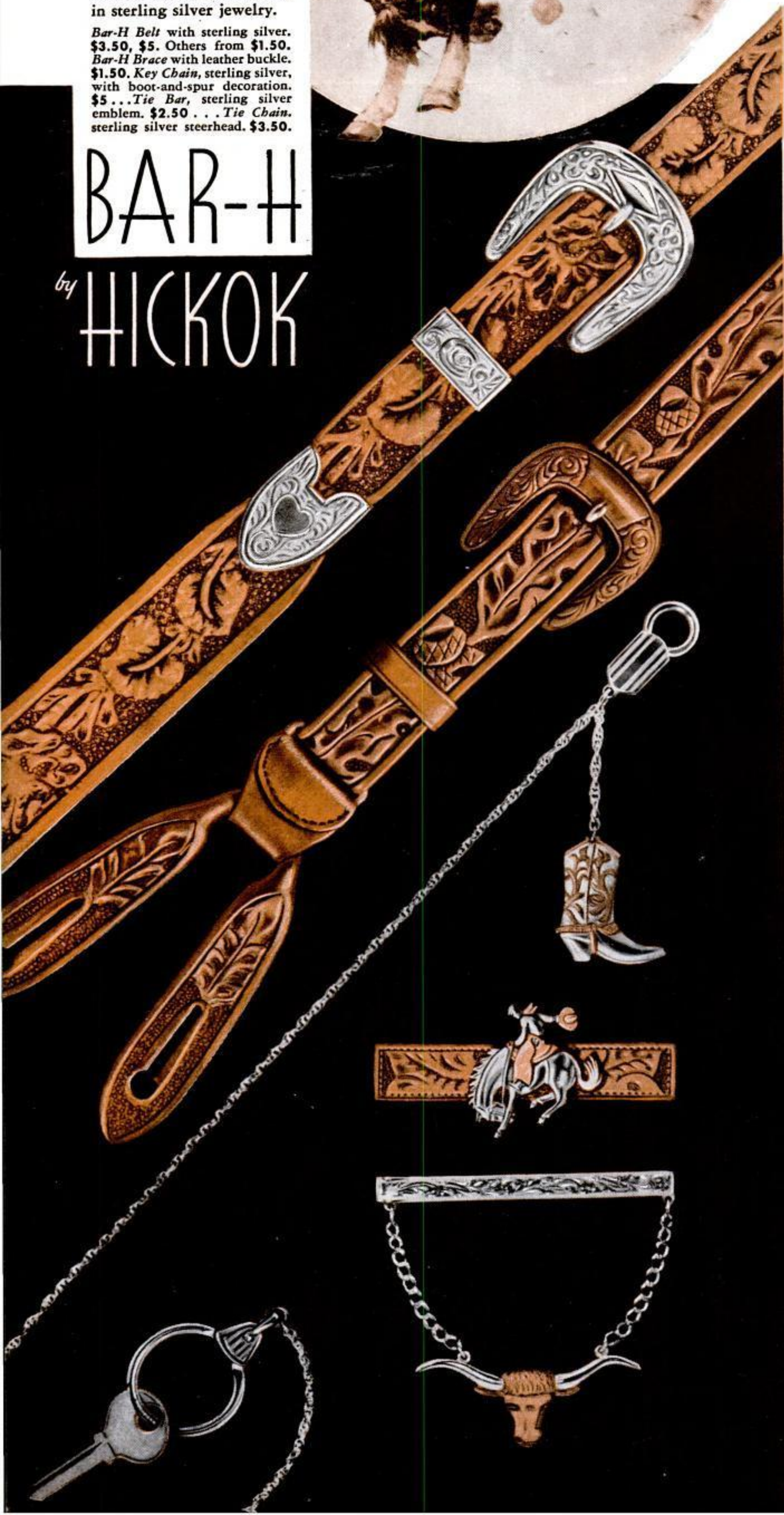
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BAR-H

by HICKOK



KARTVELI (continued)

"Well, we are not worrying about that now. We are forgetting about it and tomorrow the major will have another idea." Almost always, the major would come in tomorrow with another idea. Sometimes, of course, there were good ideas among the many, and if they didn't work out just as the major thought they would, they nevertheless kept Kartveli's staff hopping to try to get what the major wanted.

The first important plane to come out of the Seversky Aircraft Co. was the P-35 Army pursuit. It started in a curious way. Seversky had an idea for amphibian plane pontoons which would work on hinges and permit better landings. He told Kartveli to design the plane around the hinged landing gear. The amphibian turned out fine except that pilots couldn't afford to buy it. Short of money but long on enterprise, Seversky had Kartveli convert the plane into something more practical. The conversion resulted first in an Army trainer, the BT-8, and then in a pursuit plane which the Army bought as the P-35.

Kartveli's first fighter was the P-35

In many ways the P-35 was a revolutionary plane. It was the first fast, low-wing all-metal combat plane. Eventually it flew at 320 m. p. h. and was a great success. Out of the P-35, Kartveli designed the P-43 which was the Army's first high-altitude pursuit plane.

In the meantime, the company was not making money. Stockholders took the company over from Seversky, changed its name from Seversky Aircraft to Republic Aviation. Right now, the temperamental major is suing Republic's officers and directors for \$22,000,000.

Kartveli gives Seversky credit for being what he is—a great airplane salesman, a man with bold faith in the future of aviation and a man who knows airplanes. A fearless flier and test pilot, Seversky could take any experimental plane up on tests, come down with sharp and sound criticism of the plane. He could always tell just how a plane behaved and why it behaved that way. This kind of criticism is of huge help to a designer and Kartveli was grateful for it.

He is also grateful because Seversky made it possible for him to go on designing planes. He is even inclined to overlook the classic design which Seversky made him get up for a Pan-American Airways passenger-plane competition a few years ago. The competition came along when Seversky was trying to raise money for the company and the design was largely a promotion stunt. It was, to say the least, wonderful. The big seaplane has five engines—two in front and three in back—and was supposed to carry 100 passengers. But the most marvelous thing was that the plans called not simply for 100 state-rooms but for 100 individual bathrooms as well. "As if," says Kartveli, eyeing the model he keeps in his office, "just as soon as the plane took off, all of the passengers are rushing to the bathrooms and are staying there for the rest of the trip."

So long as he could design the planes, Kartveli was quite content to let Seversky take credit for them. He is an anonymous man just as most other U. S. plane designers are anonymous. Only a few American designers—like Douglas, Martin, Grumman—ever get to be well known and then only if a company or a plane is named after them.



Kartveli's staff of engineers gathers in his office to work out a new problem on a new plane. Kartveli hates most conferences, tries to take naps at company big-shot meetings.

As chief engineer of Republic, Kartveli makes \$25,000 a year and is boss of 200 men, all of whom are specialists—weight engineers, engine experts, armament men, armor men, wing men, landing-gear men and so on. When problems come up, the head engineers meet in Kartveli's cluttered office. They are almost all of them young men with tired eyes. They crowd around Kartveli at a long table and immediately begin a babble of argument. Kartveli acts like a dubious schoolmaster who never really expects to get the right answer from anybody. While the other engineers get into hot disputes with each other and seem on the point of inviting each other outside to settle aerodynamic differences with their fists, Kartveli sits with his chin in his hand, conducts private mathematical calculations in his head at great speed and listens patiently. When he makes a suggestion, his helpers will snarl at him: "Yaah. It won't work." But if Kartveli doubts a proposal, he will remark mildly: "I theenk there is something screwy about it." The men understand the subtle range of his reprimands. If he says: "I am afraid it will not work," he means he is displeased. If he says, "This is goddam no good," then he is furious.

The engineers adore him because he is always fighting to get them more space or more money, because in the old hard times, when his engineers' pay was cut and cut again, he would make up the pay cuts out of his own pocket. Kartveli wanted the patent of the P-47 to bear the name of all the engineers who helped design it and was distressed when the company insisted that his name alone be used. The engineers also appreciate his quick and quiet criticism. A model man coming in to discuss a big wooden mockup of a new plane for wind tunnel tests reports that the wing has been cut apart and then joined together again. Kartveli is worried about the joint. "That's nothing," says the model builder. "We'll put a clean coat of paint on it and in the tunnel nobody will notice it." "Yes," Kartveli says, "but the air will notice it."

The P-47 gave Kartveli headaches

As the people at Republic remember, Kartveli literally pulled his hair when he got the news that the P-44 was cancelled and that he had to design a new ship. He was up all night figuring data, took a morning plane to Wright Field in Dayton, Ohio and came back the next day with rough plans for the 47.

The 47 was a very daring plane in many ways. The whole concept of such a plane is in itself fantastic—building a machine of thin aluminum so that, climbing at great speed and powered by an engine that could run a small factory, it will carry a battery of heavy machine guns and ammunition up into the high thin air where men would gasp their life away if they were not fed pure oxygen. Way up in the sky, invisible to any eye on ground, this 6½-ton machine has to swoop and dive, make sudden rending turns, at terrific speeds. All this time, supercharging machines have to compress the air to a decent density so that the engines can function and the pilot has to fight to move his controls against the rivers of heavy air which flood across them.

The P-47 had special problems. The supercharger presented a complicated problem in conducting and cooling air from the engine exhaust to the supercharger and from the supercharger to the engine. The wing was a headache, too. Kartveli had to cut big holes on the

CONTINUED ON NEXT PAGE



P-47 production line is really under way now at Farmingdale plant (above) and just starting at new Midwest plant. Here is assembly point where wings go on to fuselages.

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CHILE . . . No. 6 of a series of Latin-American sketches. The Chilean Vaquero, or cowboy, is a gallant figure and a magnificent horseman.

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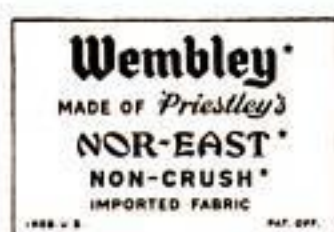
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Made of
PRIESTLEY'S NOR-EAST NON-CRUSH FABRIC



P-47's are flying now in squadrons in the U. S. When and where they will see combat abroad is, of course, an Army secret. Pilots who have flown them like them very much.

KARTVELI (continued)

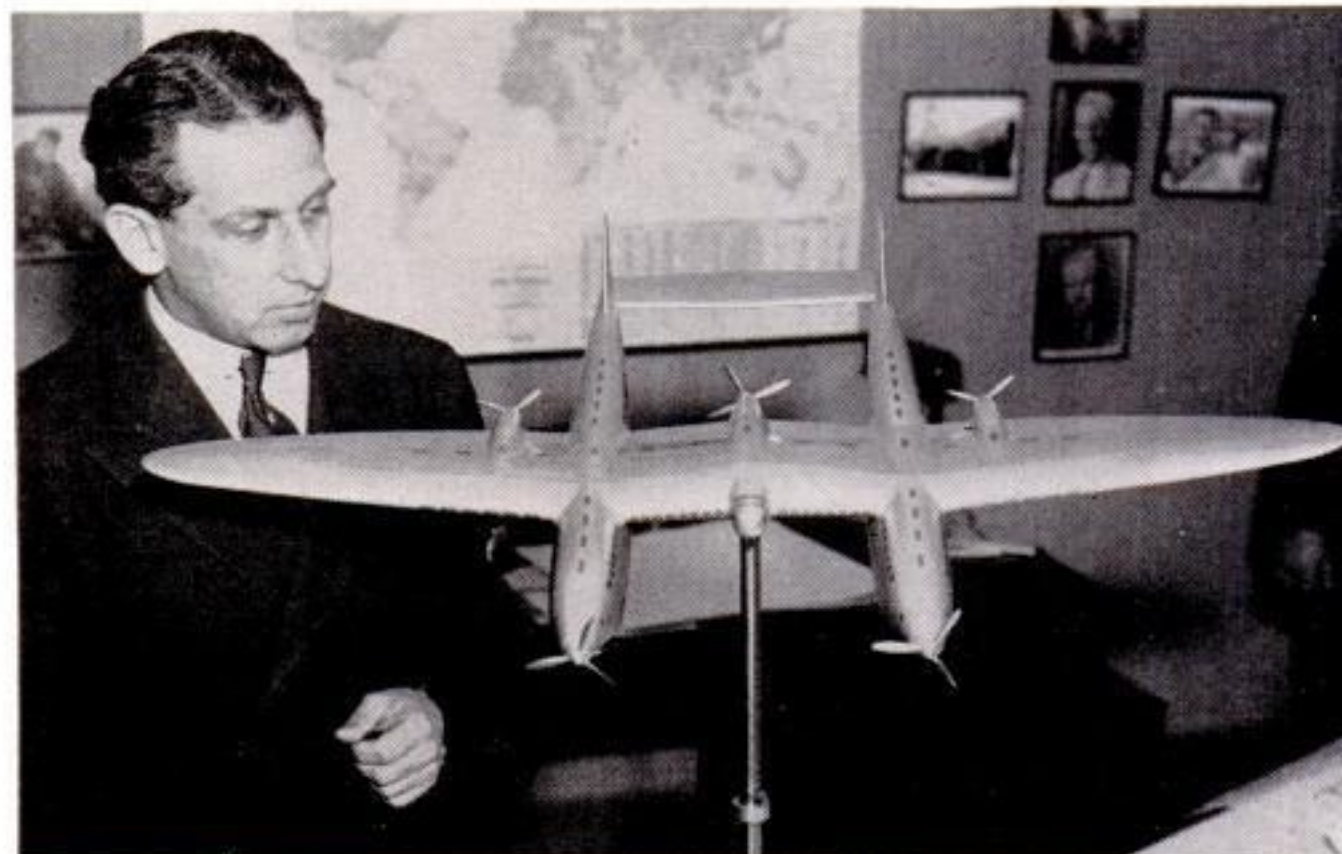
bottom of it to house the large wheels when they retracted in flight and had to cut big holes in top to house the guns and ammunition. A delicate thing at best, the wing became a honeycomb. Kartveli says he never saw a wing with so many holes in it. The big engine was another problem because of the tremendous heat it generated. Kartveli had to dissipate the heat without dissipating energy at the same time. He had to see that the air was ejected in such a way that, in rushing out backward, it helped thrust the plane ahead—a thrust which adds valuable miles per hour to a fighter plane's speed.

A good airplane designer, says Alexander Kartveli, has to be engineer, mathematician and dreamer. He has to have both patience and imagination. He has to know when to stop but always has to have the constant urge to push ahead. He has to balance theory and practice and must not be too much influenced by what Kartveli labels "good judgment," i. e., caution. He also has to work very hard. Kartveli is not sure he measures up to his own definition but he admits that he does work hard. At any given time, he is worrying about perhaps half-a-dozen plane projects—constant changes on the P-47 dictated either by new Army specifications or by flight experience, the new and faster pursuit plane the Army will want next year, combat planes for the year after next when engines may bound far beyond the 2,000 hp rating.

A plane designer has to take chances

Spending so much time at work, Kartveli has little time for fun. He likes to watch football matches and, when he gets home evenings, to walk around the house singing sad Russian songs at the top of his lungs. At home, Kartveli keeps a drafting board to work out stray ideas. He also keeps a fine collection of ten-cent comic magazines, mostly those which feature super-space rocket ships. Kartveli admires the daring of artists who design airplanes without having to compromise their aerodynamics with the demands of military men.

Kartveli doesn't consider himself a very daring man. He was, however, worried stiff over the first flight of the P-47, which took the air only nine months after the Army first asked for a design on it. Day of the first flight, Kartveli hovered balefully around the airfield, waiting for the plane to take off. "I didn't know if she was getting up or if she was proving just a flying sidewalk," he reminisces. Kartveli really understands how risky an airplane designer's job has to be and is reconciled by now to the need for risks. "If we are not taking chances," he says resignedly, "then we are still building biplanes."



Alexander de Seversky, standing with Kartveli's model of giant seaplane, once built planes and broke speed records. Today he is the country's loudest prophet of airpower.



Soft, clinging Du Barry Powder gives Mrs. Lorraine Frankland's complexion the fresh, natural look wanted by today's successful women. Mrs. Frankland, painted here in her office, is the fashion accessory coordinator of Lord and Taylor, New York.

Best Loved Beauty Help in the Success School

Over fifty thousand women have taken the famous Du Barry Success Course...and finished with lovelier-looking skins. Aside from treatments for special problems, what's behind this transformation?

Take Mrs. Lorraine Frankland. She chooses accessories for the customers of a top-flight New York store...to make their costumes outstandingly chic. She herself must be the personification of smartness and beautiful grooming. Until she discovered the Du Barry Success School, her skin was a real

problem. Treatments helped. But in make-up, the same wonderful Du Barry Face Powder used by every Success School pupil made her skin look more radiant...fresher...smoother!

No other product in the Success School gets so much enthusiastic comment. Use it on dry, oily or normal skins...it clings without caking. Never makes you look "made up." And it wears so much longer...looks so much lovelier through busy days.

Now comes a brand-new debut size of this famous

two-dollar powder, good for an average of three months of beauty...for \$1.00. See how much this powder does for you.

Du Barry
BEAUTY
PREPARATIONS



BY RICHARD HUDNUT...FEATURED IN DU BARRY SUCCESS SCHOOL AND RICHARD HUDNUT SALON, 693 FIFTH AVE., NEW YORK...AND AT THE BETTER COSMETIC COUNTERS.

PATRIOTS

will get a **BANG** out of this

THIS 1942 model shell casing pictured here differs from shell casings of the past in one important aspect:

There is no copper used in its manufacture. *It is made of steel.*

Over long months Buick, in cooperation with a special U.S. Army ordnance-industry committee, has worked on one of the special and ticklish processes of its production—and now that the job is rolling, all that's been learned of special processes and techniques is available for all shell-casing-makers to use if they desire.

It's a notably good shell casing. Tests

in quantities already have been successfully concluded, and these steel cases are being turned out on an accelerating production basis.

With copper as desperately scarce as it is, and the millions of these shell casings that will be needed for the hungry guns, you can imagine what a first-rank contribution this is to our nation's war effort.

Buick is proud to have played a part in its development, proud to have worked hand in hand with the Army, glad to have demonstrated that in the pinch American ingenuity is still doing business at the same old stand.

**You will also be glad to know we are keeping months ahead of schedule on our output of Pratt & Whitney aircraft engines and many other important war products such as tank parts, artillery parts, etc.*

war goods
**WHEN BETTER AUTOMOBILES ARE BUILT
BUICK WILL BUILD THEM**

e - I
velo
Hordes
r Across
casus
ort Stalin Takes
ge of Battle
talingrad
— The Germans, at
andstill if not in actu
before Voronezh, we
today to be losing t
there, but farther sou
e of deeper penetrati
they rolled like a th
he waving Caucasus
lds—perhaps

Four men
others suffered minor hurts
a sheared-off pump exploded
town three-story

Study Senate Prospect
Of Boosting Yield

Washington — UR — Presi-
dent Roosevelt today discussed
with some of his fiscal advisers
the prospects of Senate action
to boost the yield of the bond

There was no confirmati
from Moscow, and the Stalin
port might be merely a bit
fiction based on the facts th
Stalingrad is gravely menac
that it is not likely to be yiel

News	10
Bunny Business	13
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Regional News	14 and 15
Society and Women's	14 and 15

Flint, Mich.

ops Steel Shell Cases

New Process, Revealed Here, Saves Much Essential Copper

Already Being Produced, These Large
Projectiles Successfully Withstand
Strain in Severe Tests

Buick engineers, working with experts of the army ordnance department, have perfected a method for manufacturing larger caliber shell cases from pressed steel and have put a huge production program under way.

This was disclosed, with War department approval today, by Harlow H. Curtice, Buick general manager. The new process, he said, will mean the saving of millions of pounds of copper and other critical metals, and will protect Uncle Sam's gunners against shortage of heavy ammunition due to scarcity of those metals.

The Buick process, which has been under experiment for several months, with final tests successfully completed and production equipment now installed and in operation, produces a shell case capable of withstanding the high pressures of gun fire, capable of easy loading and ejection from the gun chamber, meeting the requirements of operation in both hot and cold guns and free from spark hazard and obturation.

According to Mr. Curtice, the development has been applied to several sizes of artillery shell cases for the army, including antiaircraft shells. He said the process is applicable to all the larger caliber shells and has been made available to the government for use by other manufacturers in shell production.

It requires no special steels or alloys needing critical metals, and may be produced in large quantities with the highest standards of quality, he said. At the same time it does not present a machinery and equipment problem, the manufacturing process being capable of utilizing much of existing facilities of munitions makers.

Buick technicians undertook the development at the instance of army ordnance officials and launched major experimental

U S and Finns Near Break

Washington Asks
Closing of Consulates

Washington—AP—Finland and the United States were one move short of an open break in diplomatic relations today, with the Helsinki government preparing to close all its consular offices in this country in compliance with a Washington "request."

The State department is closing the Finnish consular section of the American legation in Helsinki.

The status of the American legation itself and that of the Finnish legation in Washington remain unchanged, but the ousting of the consulates was ominously reminiscent of a similar development in German-American relations. The closing of consular offices in

*Here's the detail
—it's important*



cases
deep-
and 30
and

men won advance positions in center of Alamein line.

Air War - R/ Inaugurates sunset raids against Germany with giant bombers plastering Flensburg and Luebeck, Baltic U-boat nests.

Pacific—United States bombers raided Hankow, Japanese inland Chinese base.

Allied Bombers Blast Hankow

The whole thing is relative, he declared, and, he said, the whole thing must be kept as much in

BUICK DIVISION OF GENERAL MOTORS

Tough Customer

Concentrated firepower...a smashing blast of machine gun bullets and cannon shells spitting from one point—and heading hell-bent for the target.

That's the kind of firepower that makes a warplane a tough customer. That's the kind of firepower a Lockheed P-38 "Lightning" has...concentrated firepower that's designed in—not added on.

And it's firepower that is *always* concentrated...from muzzles to target, at any range...because it comes slamming from the nose of that unobstructed center cockpit. It's a battle-axe of lead and explosives that can slice off a Messerschmitt wing, or blast a Jap Zero to bits...and it's another reason why a 'plane christened "Interceptor Pursuit" in defense-minded days fits so well its new official air force title, "Fighter"! Lockheed Aircraft Corporation...Vega Aircraft Corporation...Burbank, California

**for protection today, and
progress tomorrow, look to**

Lockheed

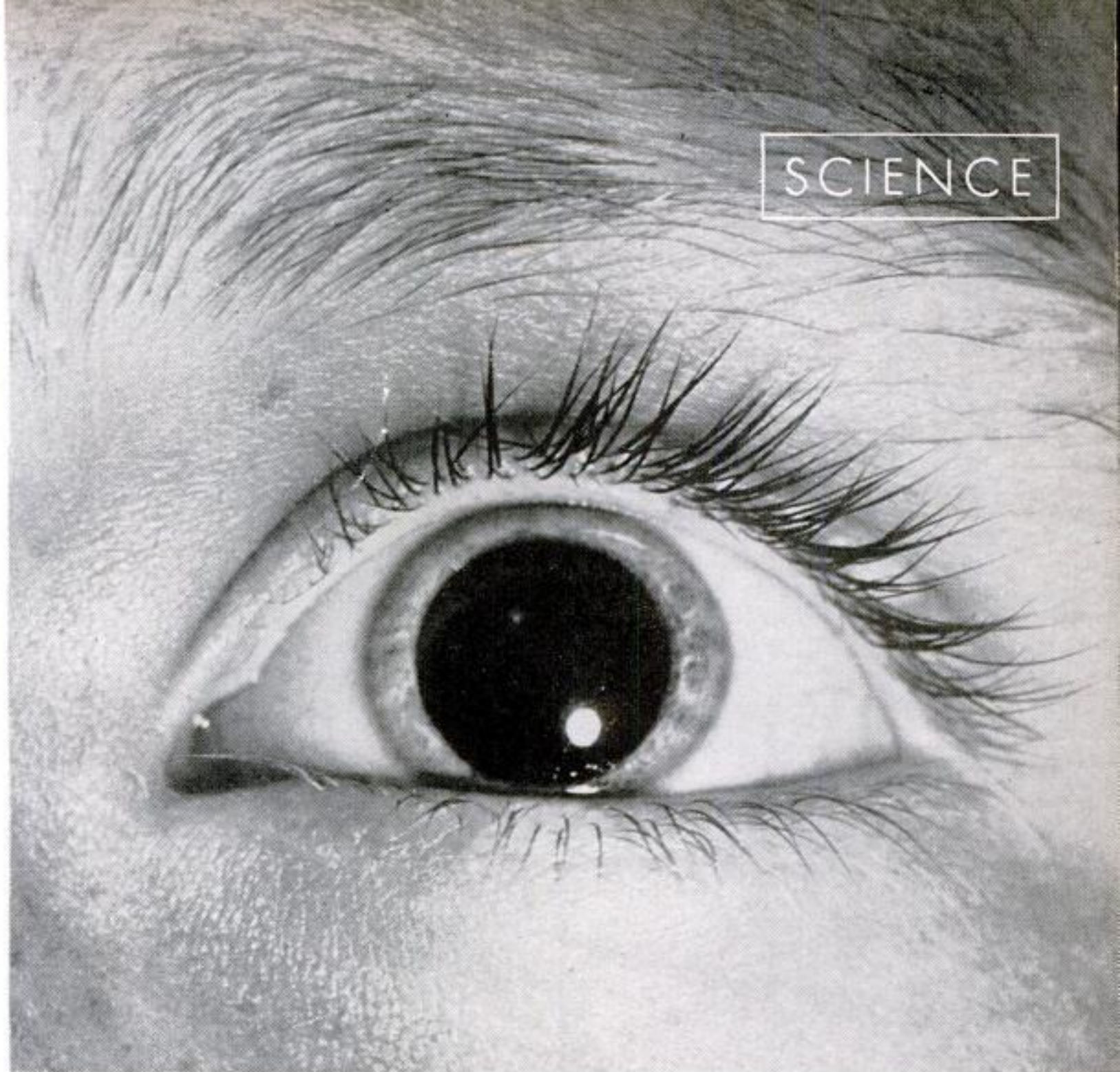
FOR LEADERSHIP



Member Aircraft War Production Council, Inc.



PUPIL IN BRIGHT LIGHT CONTRACTS TO REDUCE AMOUNT OF ILLUMINATION ON THE RETINA



IN DARKNESS, THE PUPIL EXPANDS TO INCREASE ILLUMINATION ON THE RETINA

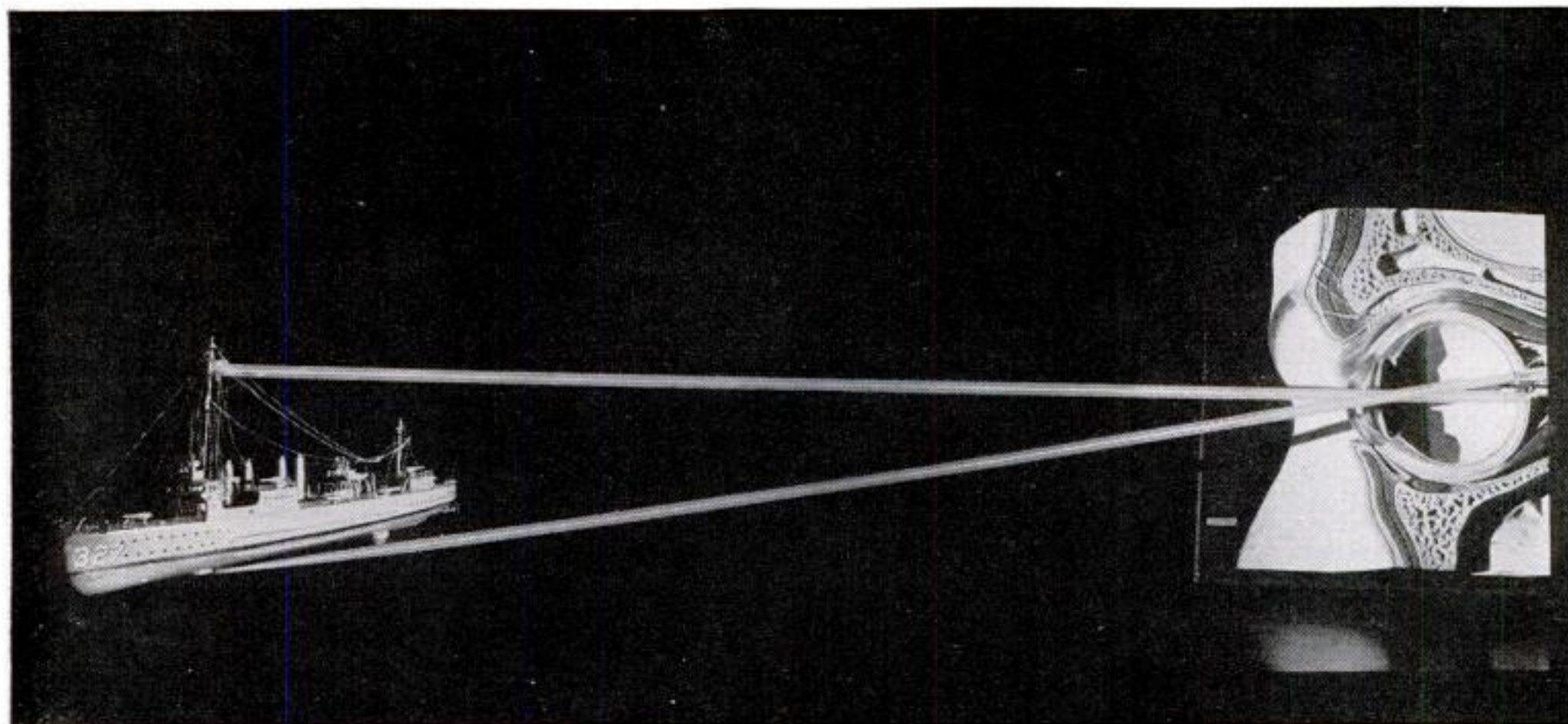
NIGHT VISION

Men learn to use second pair of eyes for seeing in the darkness

Pilots, plane-spotters, coast guards, sailors and sentries on night duty have been making the interesting discovery that man is equipped with two pairs of eyes. Vision by day depends on the 7,000,000 cone-shaped cells grouped in a tiny spot at the center of the retina, which distinguish colors and resolve fine details. The cone cells are blind at night. For night vision, the pupil expands to increase illumination on the 130,000,000 rod-shaped cells that cover the rest of the

retina. These cells are color blind and can resolve only large images, but they are highly sensitive to motion and so sensitive to light that they can perceive a match flame at a distance of three miles.

The eyes attain maximum night efficiency after 40 minutes in the dark. The trick then is to learn not to point the night-blind cone cells at an object by peering at it directly but to let the image register on the highly sensitive rod cells by looking at the object obliquely.



Day vision: Looking directly at object, eye registers image on cone cells grouped in the macula, the tiny central spot of the

retina directly behind the lens. Pupil, like the diaphragm of a camera, contracts to bring images into sharper focus.

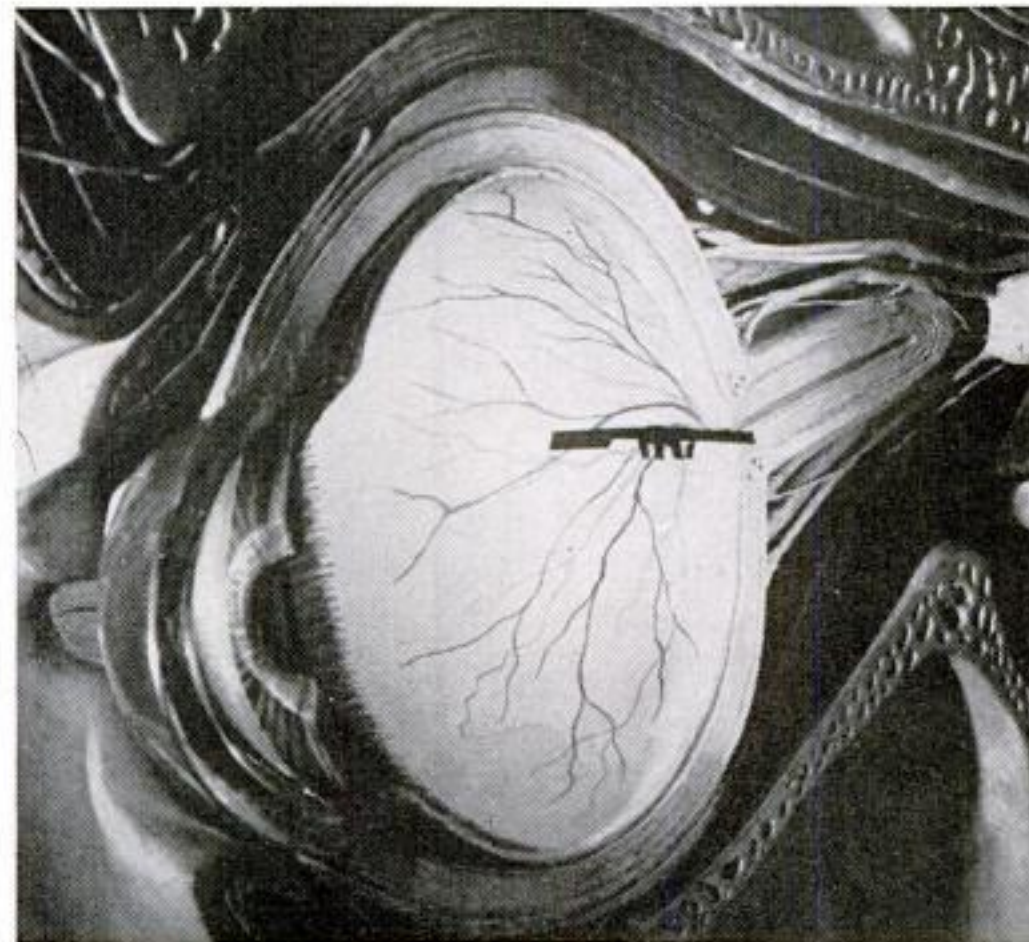
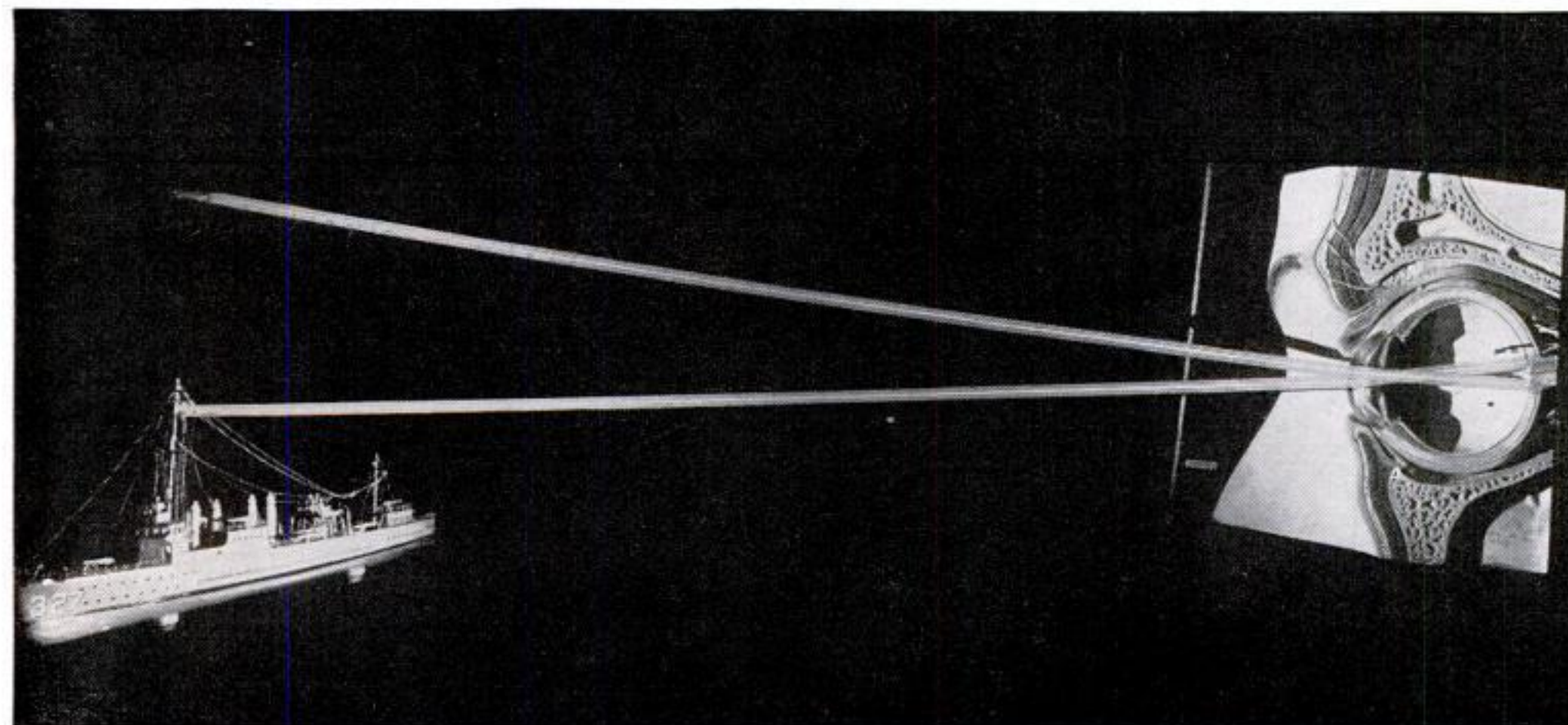


Image at center of retina registers on cone cells. Cone cells occupy such a tiny area that they cannot see whole object at once.



Night vision: Because cone cells at center of retina are blind at night, eye must look above or to one side of object that

is to be seen. The image then registers on rod cells. In daylight, rod cells perform the important function of side vision.

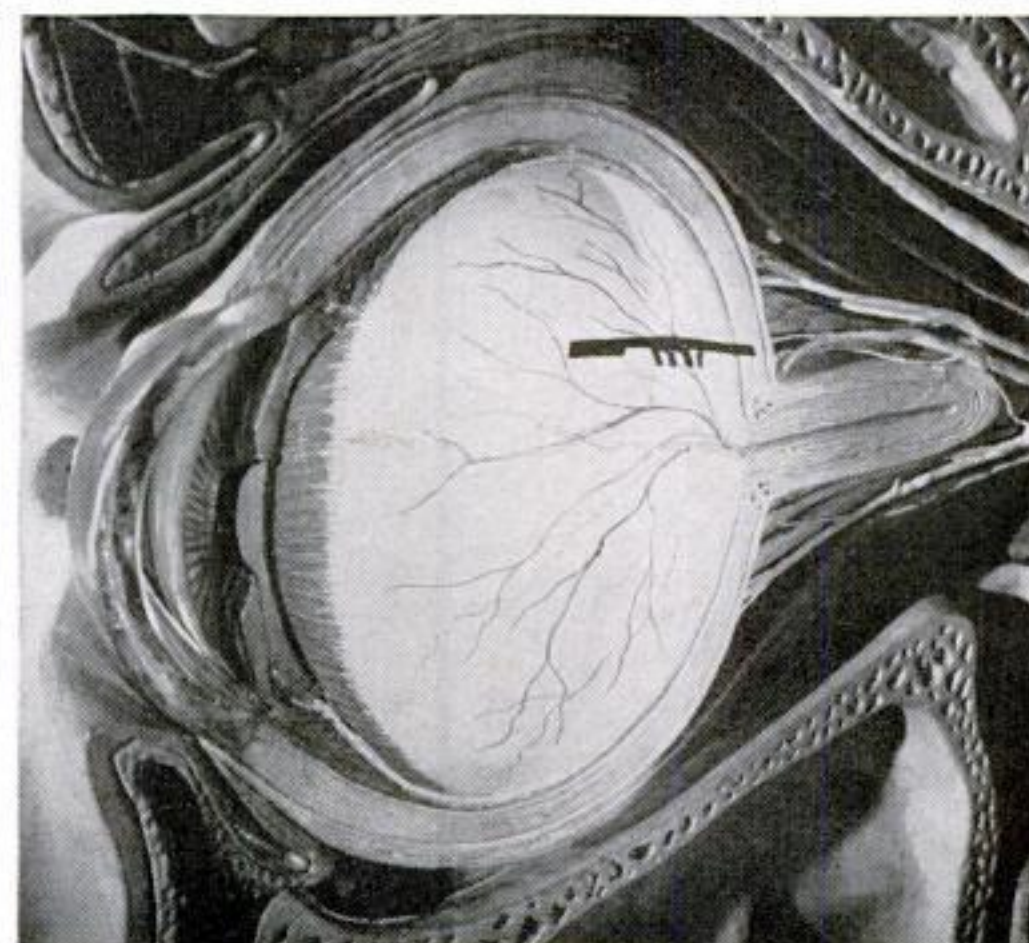


Image off center of retina falls on rod cells. Light perception of rod cells increases 1,000 times in 40 minutes of darkness.

COLD WATER? SO WHAT!

SOFT, hard, hot, cold, salt, fresh: Any kind of water working with Barbasol turns out a Barbasol Face—a finer, smoother skin, the sweetest shave you ever had. (The older you are the younger your face will feel, thanks to the soothing, beneficial oils in Barbasol that do away with the bite and burn of most shaving methods.)

HARD weather calls for soft shaving—something to soften the whiskers for a whiz of a trimming—something to soften the razor's touch on the skin—something to help keep your skin soft and smooth, despite the roughest weather. That "something," of course, is Barbasol!



HURRY your pretty-up business. Your soldier boy shaved with Barbasol. He'll be a little early, since Barbasol's the quickest shave a man can set his hand to. (Quicker still, if he sticks a rust-resisting Barbasol Blade into his favorite razor.) Three sizes of Barbasol. Large size, 25¢. Giant size, 50¢. Family size, 75¢.

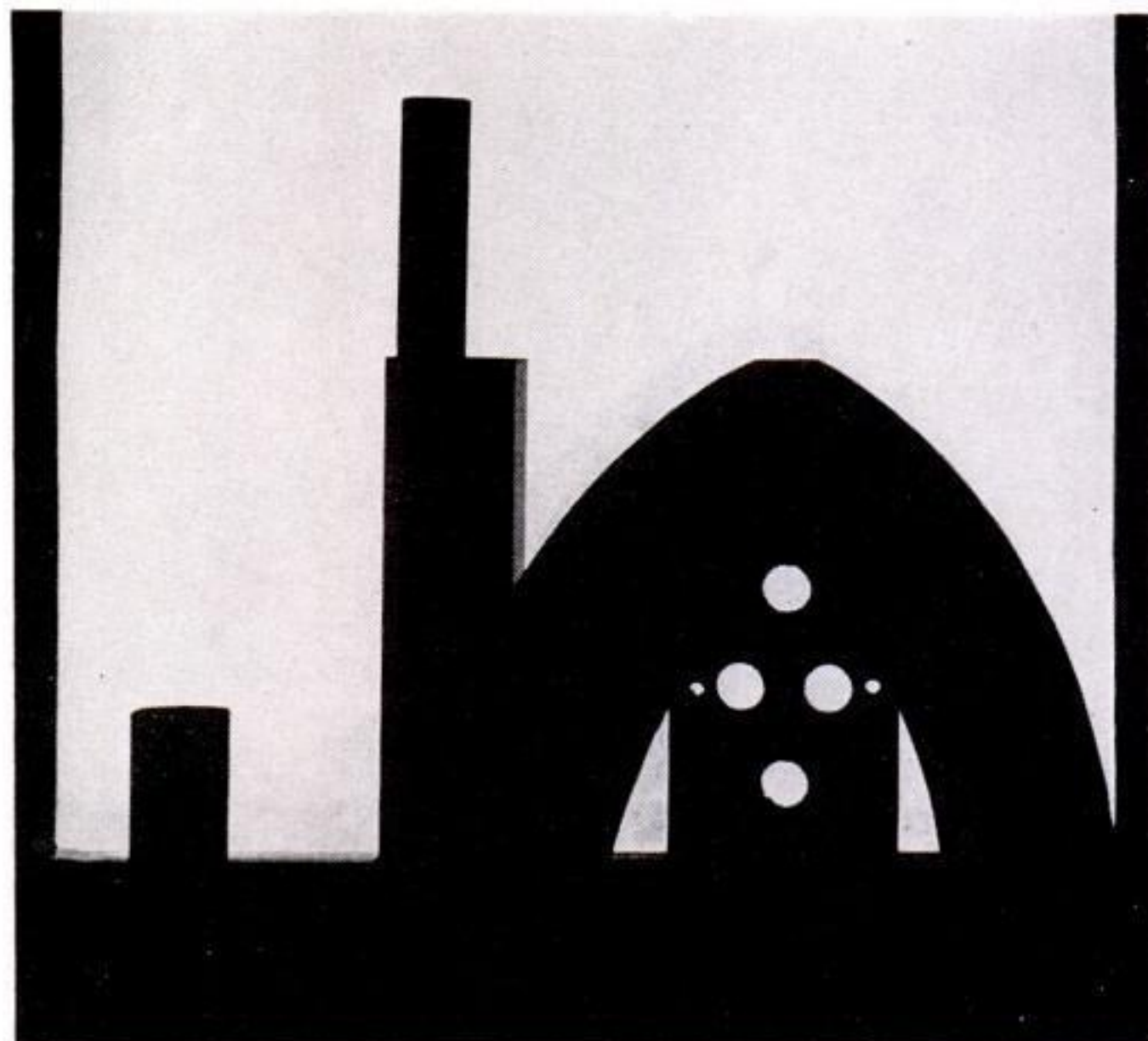


Night Vision (continued)

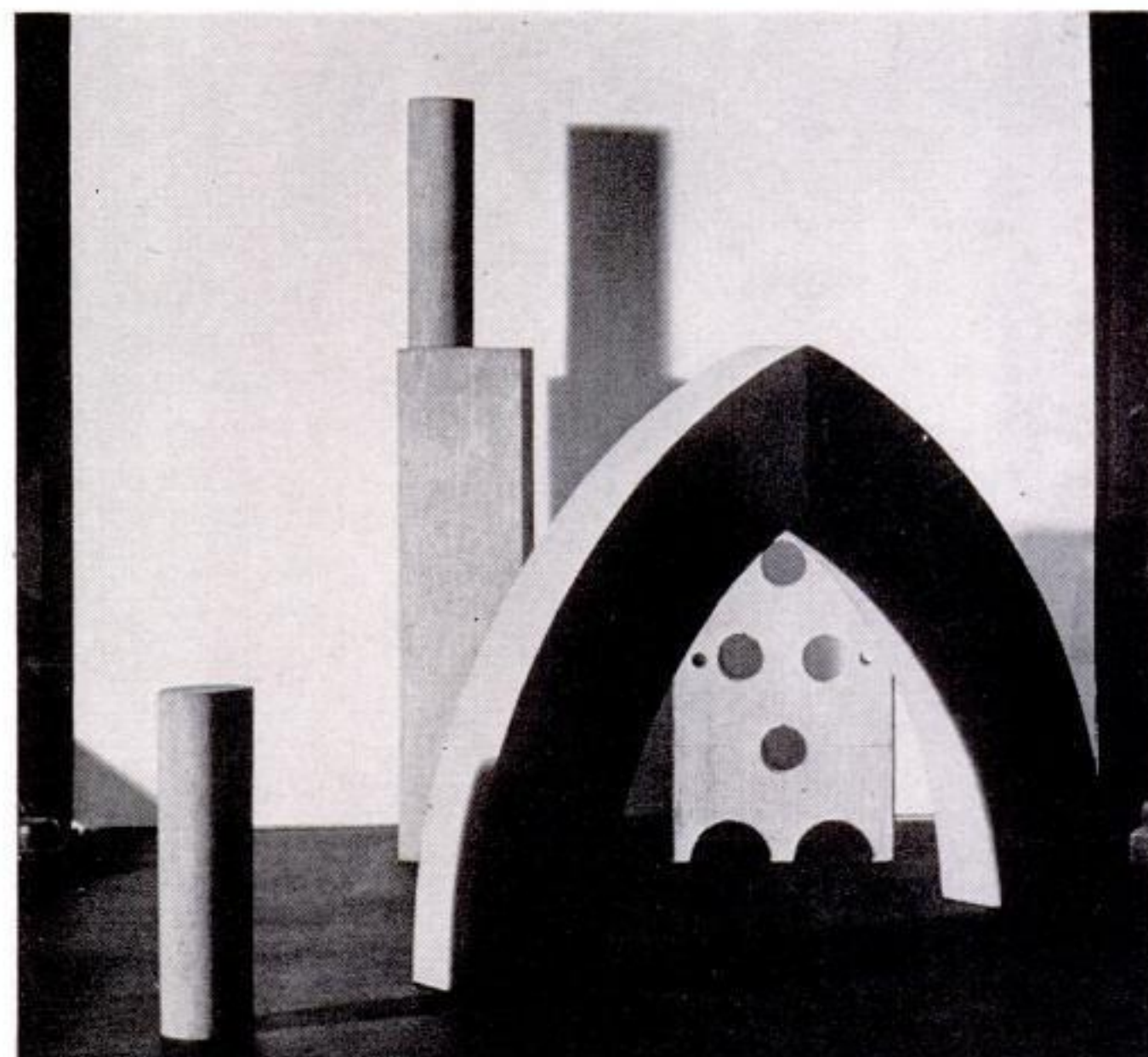
ADAPTATION TO DARKNESS REQUIRES 40 MIN.;

Except in cases of actual deficiency, vitamins do not improve night vision. Efficiency can be attained by adherence to a few simple rules. The U. S. Navy trains its personnel to see at night under a system worked out by a group of medical officers collaborating with Dr. Walter Miles at Yale, who arranged these demonstrations.

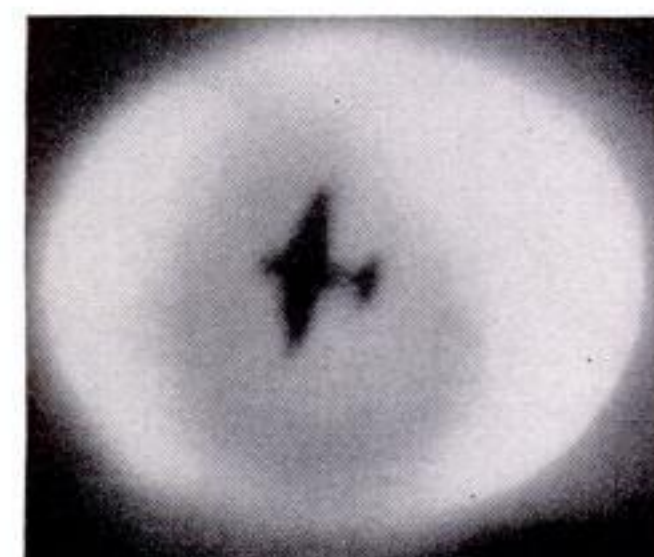
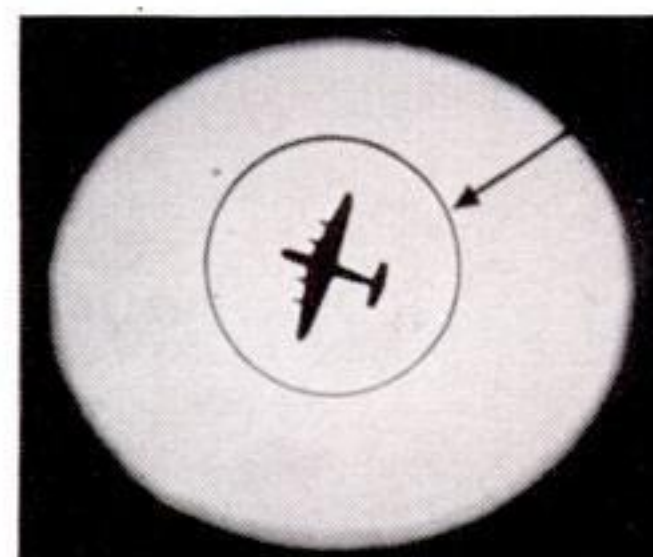
First rule is that men should not go on watch until their eyes have attained full dark-adaptation, a process that requires about 40 minutes of patient waiting. Since adaptation can be lost in a few seconds, exposure to light, even the dim light of an instrument board, must be held



Disappearance of perspective in night vision is demonstrated here. The forms silhouetted against the background appear to stand in single plane, at same distance away.



Perspective reappears in the light. Since, with the perspective obscured, the size is also obscured, a lookout must be able to identify enemy ships by their profiles alone.



Plane can be seen against night sky best if eye scans circle around it. Direct look at plane (right) beclouds its image, due to night-blindness of the day-vision cone cells.

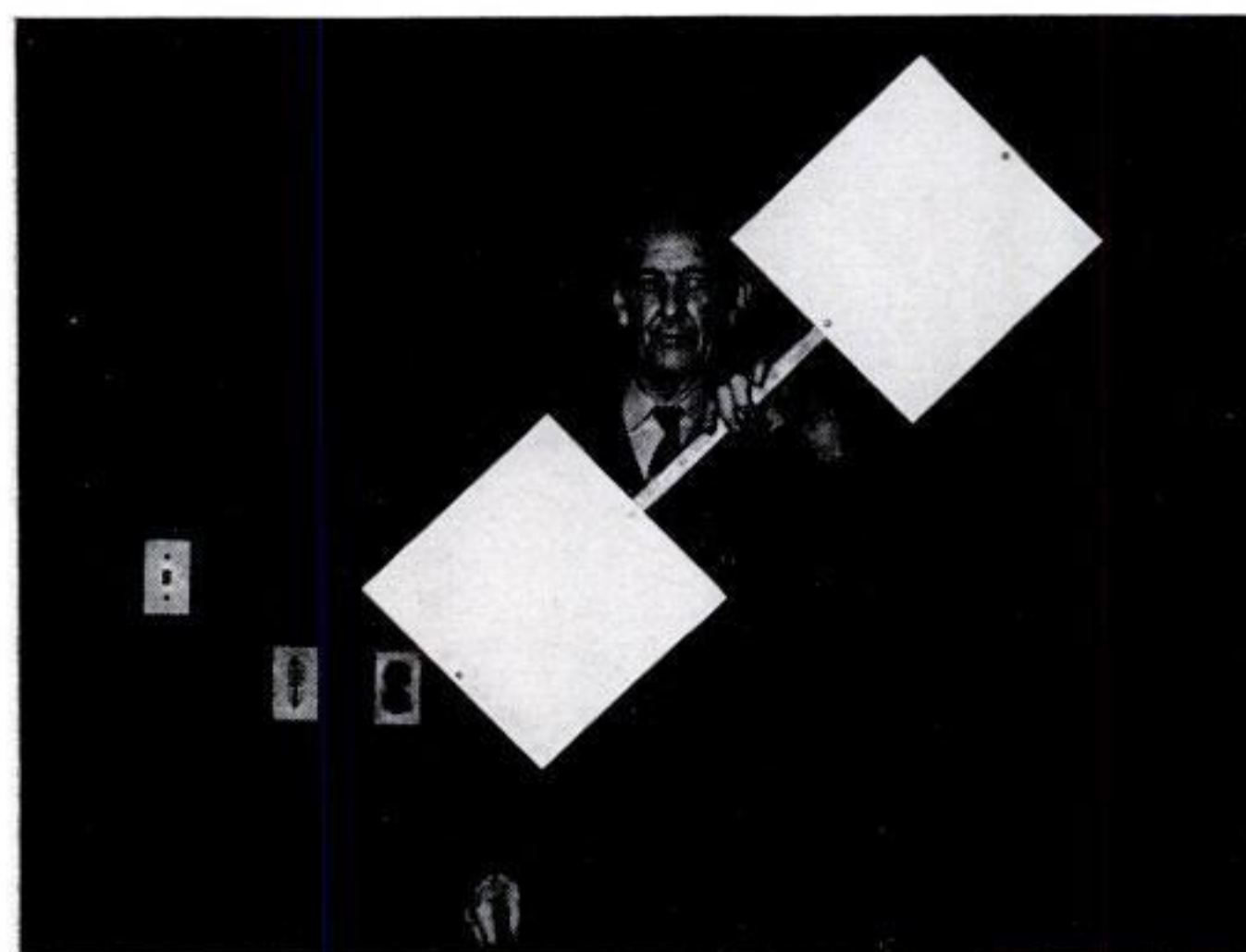
THE EYES LOSE IT IN LIGHT IN A FEW SECONDS

to a minimum. Since the night-vision rod cells of the retina are insensitive to red light, dark adaptation can also be attained and protected by wearing a red-glass eye shield shown at right below.

Efficient use of night-adapted eyes requires practice. On a starlit night, images register only by contrasts of relative darkness. Objects can be seen only by constant scanning of the area around them. They vanish if the observer succumbs to the temptation to look at them directly. Foreground details cannot be seen at all, and since perspective disappears almost completely (*see below*) it is difficult to judge size and distance.



Night-vision test is here demonstrated by Dr. Walter H. Miles of Yale, who helped to devise the Navy's night-vision training system. Signal cards here cannot be seen.



Cards can be seen by observer when turned face-on in darkness. These two pictures also illustrate the fact that a brighter, larger silhouette will obscure objects nearby.



Red-glass eye shield facilitates and protects dark-adaptation of eyes. Since shield transmits red light only, Navy has had to redesign color scheme of navigation charts.

NOW—dramatic complexion “re-styling” 1-Minute Mask!

In 60 seconds a brighter look
a sweeter touch



1 Skin “grayed over”

When your skin *feels* rough, it usually *looks* dull, too. Because both the natural smoothness and the fresh color of your face may be spoiled by the same dingy “curtain” of scaly, dried skin and clinging bits of dirt. Get after this beauty-dimming “curtain”—fast!

2 The 1-Minute Mask

See what this *new* way of using Pond's Vanishing Cream can accomplish in only 60 seconds! Just spread a white, cool mask of the Cream over cheeks, forehead, throat—all but your eyes. Leave on one full minute—to allow Pond's Vanishing Cream to do its special beauty job. Then tissue off.

3 Thrill Finish

Quietly . . . dramatically . . . the keratolytic action of Pond's Vanishing Cream has been loosening and dissolving the grubby “curtain.” Your face emerges from the 1-Minute Mask feeling dewily softer . . . and looking fresher—even *lighter*! Make-up goes on sweetly—and *stays*!

“Nowadays, when we're all doing more—in less time—a quick beauty ‘pick-up’ like the Minute Mask is a real blessing!”

MRS. WILLIAM F. DICK



It's a Beauty Twosome!

1-Minute Mask!

3 or 4 times a week, give yourself a “face re-styling” with the 1-Minute Mask of Pond's Vanishing Cream—just as it's shown above. See *your* skin look smoother and brighter!



Ideal powder base!

Before powder, always spread on a protective film of Pond's Vanishing Cream. Not “oozy” . . . not drying! Gives a silky finish that really *holds* make-up.

Will your Scalp stand the FINGERNAIL TEST?



1. SCRATCH YOUR HEAD and see for yourself. Is loose ugly dandruff spoiling the good looks of your hair? Don't let it! Use Wildroot-with-Oil. The famous Wildroot formula that's been chasing dandruff scales for 30 years, plus pure vegetable oil that grooms without grease...



2. YOUR HAIR CAN LOOK LIKE THIS if you get a bottle of Wildroot-with-Oil today! Its safe, powerful 3-Action grooms the hair... relieves dryness... removes loose dandruff. Get a bottle today at your nearest drug counter. Available in four popular sizes. Also in Regular Formula (non-oily). Professional applications at your barber.

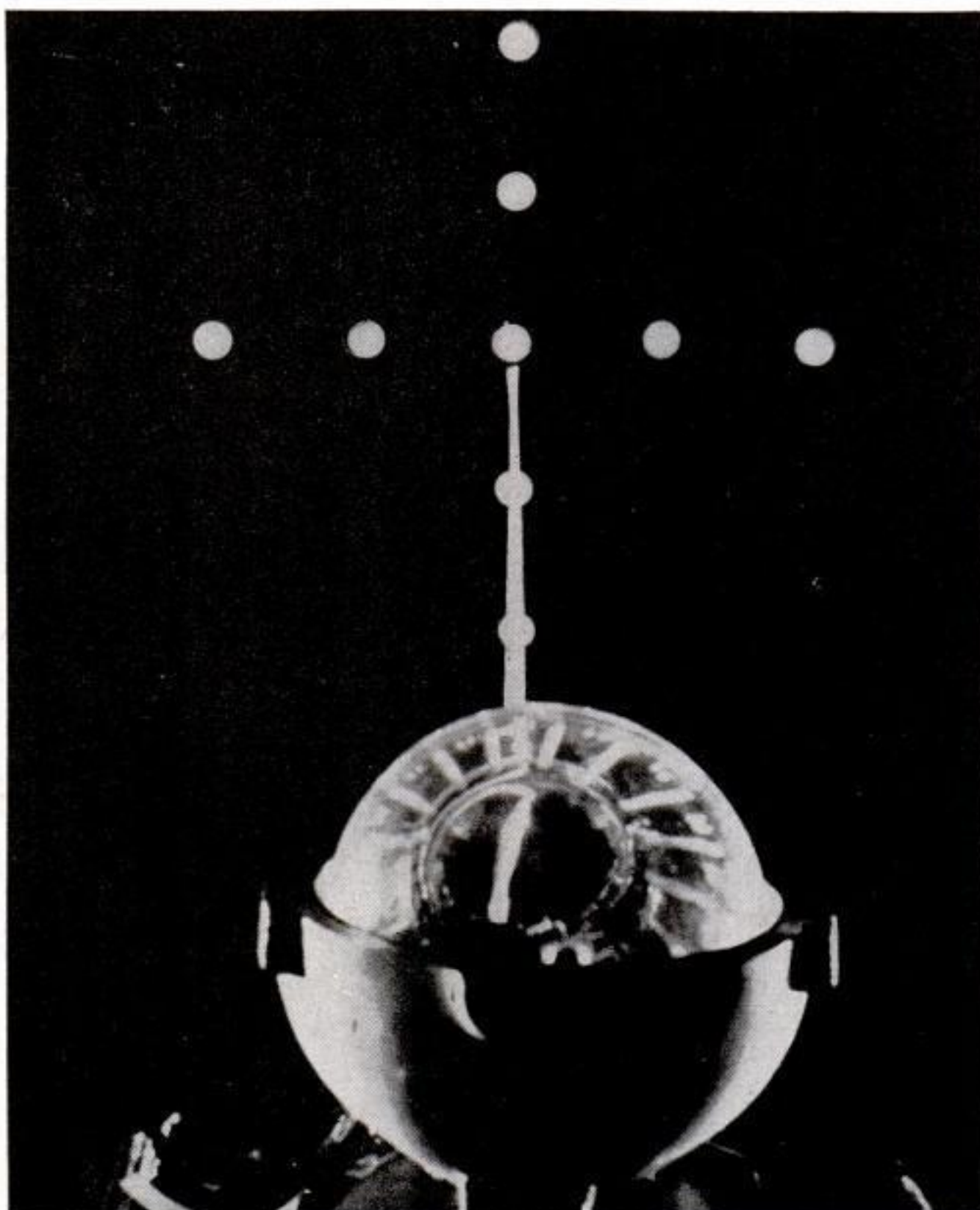
WILDROOT



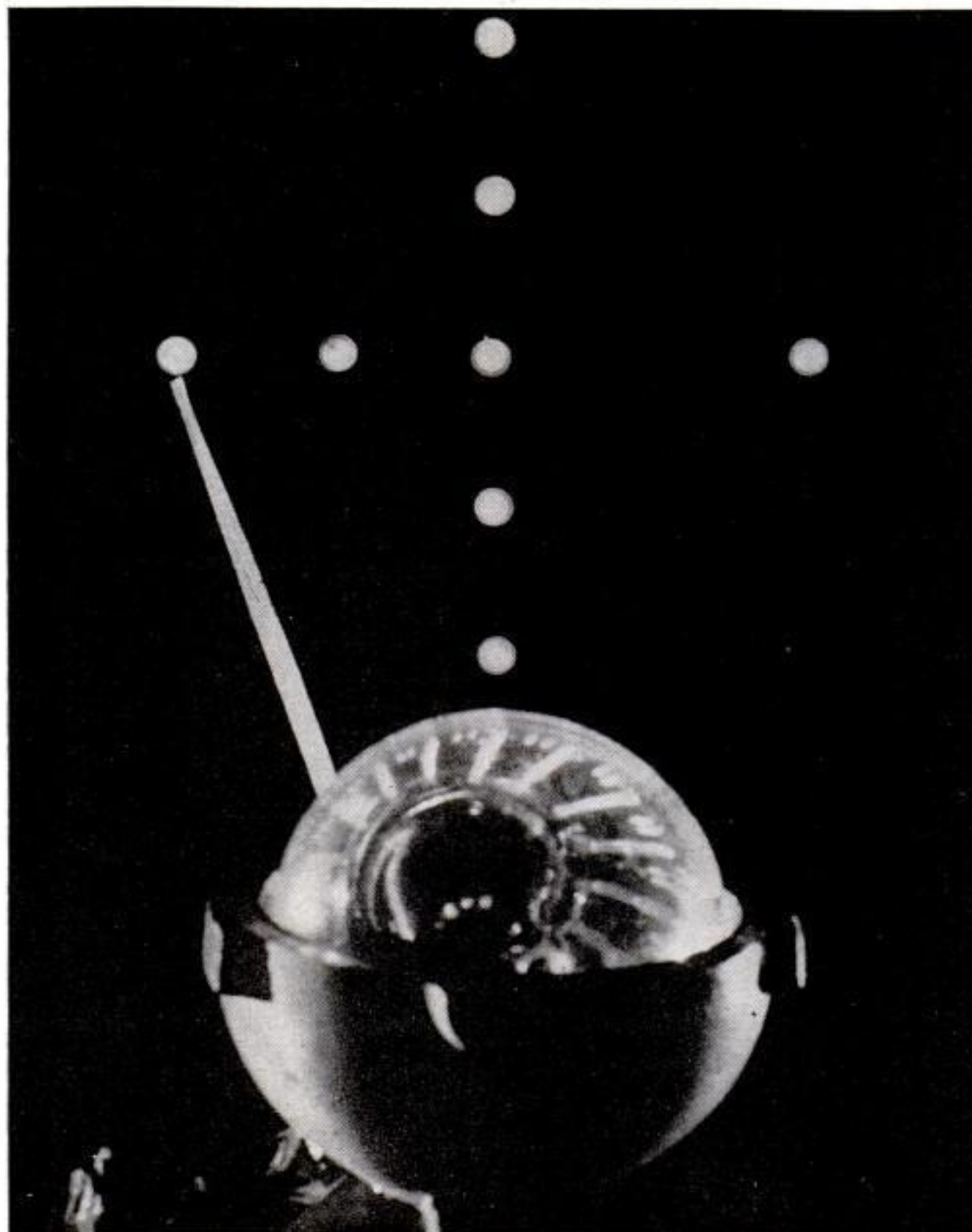
NIGHT VISION (continued)

BLIND SPOT IS HAZARD FOR NIGHT WATCH

The blind spot, the point in retina from which the optic nerve leads out into the brain, is another hazard to night vision. It does not affect the area on the retina in which the cone cells of day vision are grouped. It is, however, a sizable hole in the rod-cell area of the retina, on which night vision depends. Due to the blind spot, objects observed with one eye through telescopes and sighting tubes often vanish.



Whole pattern of lighted neon bulbs registers on retina of this model eye when it is pointed directly at center. Blind spot, at this moment, is pointed outside of pattern.



Light disappears, covered by blind spot, when eye looks at the left end of arm. This is a problem for lookouts, squinting into telescopes, who must hunt for object again.



"Only a weensy bit more, Major, or pretty soon even **ENO** won't help me!"

Smoking, eating or drinking to excess may bring on headaches, heartburn, and the heavy, stuffy feeling of acid indigestion. When that happens, just remember—a dash of sparkling, tangy-tasting Eno in a glass of water helps alkalize by relieving excess stomach acid. A larger quantity taken before breakfast acts as a refreshing laxative. Buy world-known Eno... and use anytime you feel out-of-sorts.

Whenever You Eat, Drink or Smoke Too Much... Take

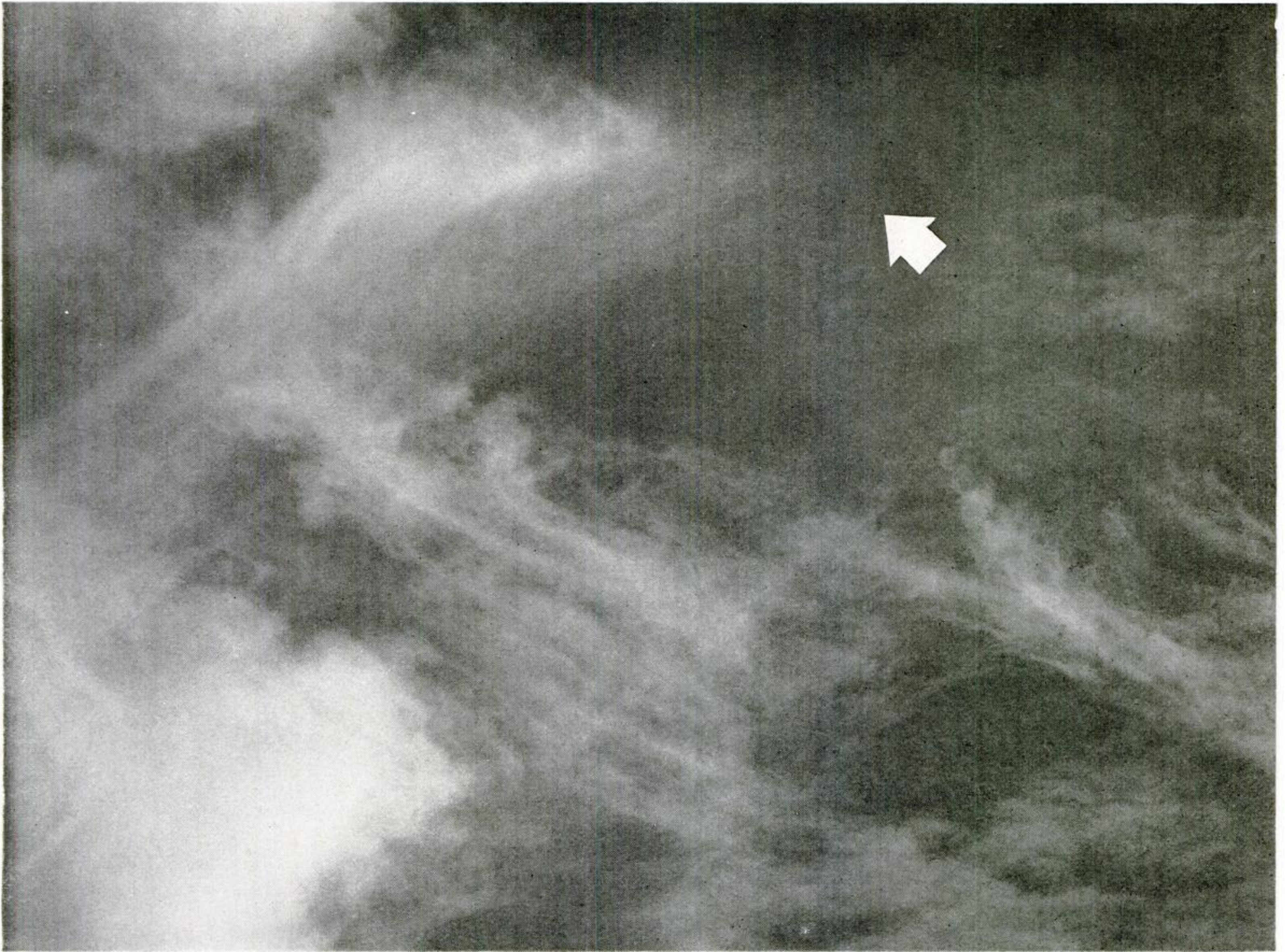


ENO

The Effervescent Saline THAT TASTES SO GOOD

WRITING A PLEASURE
\$1 INK-O-GRAPH \$2
14 KT. SOLID GOLD POINT & INK FEED
Lets you dash off letters and reports with speed and ease. Writes smoothly as a soft lead pencil on any quality paper. Unequaled for making carbon copies with original in ink. The genuine has "Inkograph" on the barrel. At leading dealers.
INKOGRAPH CO., INC. • N. Y. C.

Dinner after the game?
Make it one of Life's Sparkling Moments
Great Western
AMERICAN SPARKLING BURGUNDY
SEND FOR OUR RECIPE BOOK • PLEASANT VALLEY WINE CO., RHEIMS, N. Y.



Photograph of a Flying Fortress—seven miles up

This is the way a Flying Fortress* looks to the enemy, on its way to the bombing objective. At six and seven miles up, an airplane is invisible to the naked eye, and one of the reasons for the success of the Flying Fortress in combat is that it strikes with deadly precision from regions above the effective range of anti-aircraft fire, and beyond the reach of most enemy planes.

Seven miles is 36,960 feet. Problems of flight that high in the air increase in severity with every hundred feet. The air up there is colder than Siberia in winter, and atmospheric pressure falls off sharply. The stratosphere is still a newly discovered country. Until recently, one of the major problems has been the maintaining of communications.

A year ago 19,000 feet seemed to be the ceiling for plane-to-ground voice communication. Above that, somewhere in the thin, biting air of the substratosphere, the radio-telephone died. Radio-telegraph was good up to 26,000. From there, it was a one-way street. You could receive, but you couldn't send.

Here was a problem for Boeing acoustical and electrical engineers. Years ago, Boeing led the development of the first plane-to-ground short-wave radio-telephone system. Now, with Boeing Flying Fortresses operating six, seven and more miles above the earth, it was necessary to provide two-way radio voice communication at these levels. . . . This the Boeing engineers did.

Working nights and days, working in the laboratory and "upstairs" in the stratosphere, working against time and cold and rarefied air, Boeing engineers have gradually pushed the communications ceiling higher and higher.

Today the men in the Fortresses cruising over the roof of the world know that their communication system is the best available. Today the work of Boeing engineers is helping our Air Forces to speak terse, well-chosen words for democracy.

The advance of radio communication . . . both for peace and for war . . . is only one of the many different projects which form a constant part of the Boeing engineering schedules at Seattle and in other plants in the Middle West and Canada.

DESIGNERS OF THE FLYING FORTRESS • THE STRATOLINER • PAN AMERICAN CLIPPERS

BOEING

*THE TERMS "FLYING FORTRESS" AND "STRATOLINER" ARE REGISTERED BOEING TRADE-MARKS



A felt hat slanted over one eye has long been a Joan Crawford pet. This is a new Daché version



Eye-shield of lacquered lace is pretty camouflage for a lady with a wink or a black eye. This was Cherry Hannan's first modeling job. No wonder she looks startled.

EYE-CATCHER HATS

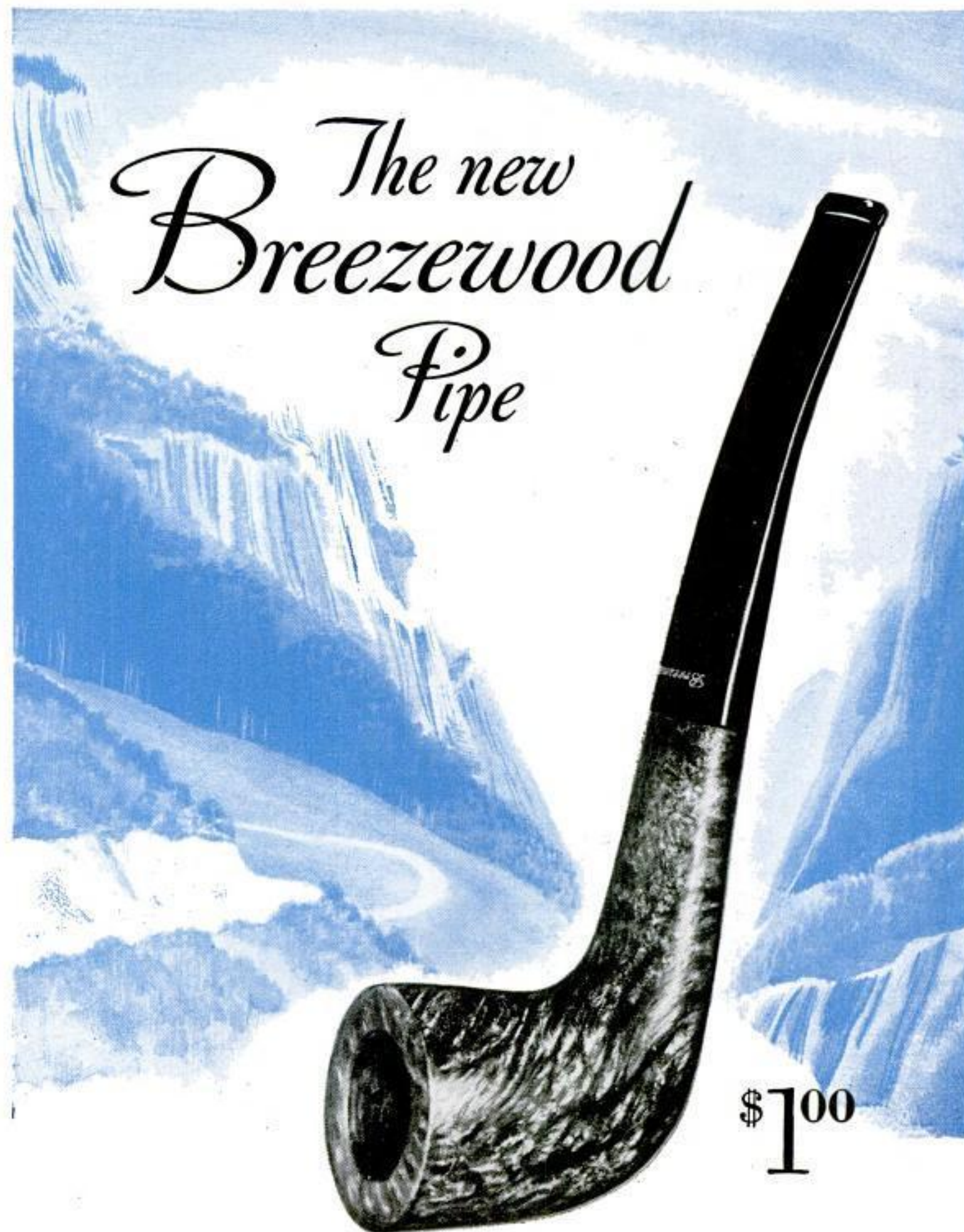
Men have been blamed for a lot of things women do and now Milliner Lilly Daché accuses them of driving women into eye-jeopardizing hats. These are high-rumpety bits of nonsense with feathers, veils, or brims reaching down over the right eye. Without so much as batting one of her own excitable Gallic eyes Madame Daché says, "Men in uniform, they like their women helpless. So, we knock out one eye on the lady and catch all the men's eyes." Hats on these pages and one on cover are interesting examples.

Hats are one of the few items of women's wearing apparel unrestricted by Government regulations. Milliners are using enough materials so that a hat looks like a hat and not a piece of string and the industry is at last determined to make them flattering.



"Flirtation hat" is John Fredericks' name for this stovepipe hat. Black Chantilly lace nose veil covers both the eyes but the brim completely knocks out the right one.

CONTINUED ON NEXT PAGE



From the Great Smoky Mountains comes a newly discovered pipe incredibly light in weight

Unheeded — sleeping unused for centuries, a virgin forest of pipe burls has just been discovered in *America*, in the Great Smoky Mountains of North Carolina! Again the American continent proves its native wealth of natural resources — and from this virgin forest comes a beautiful pipe burl, lighter in weight than any before known — "Breezewood." The Breezewood pipe weighs, on an average, less than an ounce and a quarter, complete with mouthpiece! See, hold in your hands this astonishing new American Breezewood pipe, at your tobacconist's, today. Buy one — and discover how wonderfully sweet a smoke America's Breezewood pipe can bring you! In all traditional shapes, at your dealer's.



No wonder they were astonished! They all guessed too high! Actually the astounding new Breezewood pipe weighs, on an average, less than an ounce and a quarter!

The Breezewood Pipe

Free Your Hands for Other Tasks. The new Breezewood pipe is so light, it's pleasant to keep it in your mouth. Breezewood doesn't fatigue you when driving, fishing or whenever your hands are busy.

COPYRIGHT 1942. THE BREEZEWOOD PIPE CO., 630 FIFTH AVE., N. Y.



We're all in the fighting forces! Here on the home front, our job is to back up the Military with Dollars and Production. Manhattan is doing its utmost! Much of our manufacturing is now for government use; and our shirts for civilians continue to have the quality for which the Manhattan name is famous.

Today, as in three previous wars, the Manhattan Way is the American Way!

Manhattan
SHIRTS

SIZE-FIXT • MAN-FORMED • COLLAR-PERFECT • \$2⁵⁰ UP



Seeing stars is no trick for the person wearing this hat. Black veiling studded with scintillating stars is draped over the pink felt crown and shoots down over the eyes



White feather of glycerined ostrich is used in place of a veil to hide one eye and half the face. Ticklish males are likely to find this little bonnet a hazard when dancing.

ANOTHER FRIENDLY SERVICE To Help Keep Wartime America Informed



SOCONY-VACUUM
PRESENTS

Raymond Gram
SWING

OVER THE BLUE NETWORK
MON. TUES. WED. THURS.

10 P. M., E. W. T. — 9 P. M., C. W. T.
8 P. M., M. W. T. — 7 P. M., P. W. T.



RAYMOND GRAM SWING, internationally-known analyst of world-wide affairs, is now being brought to you by the Socony-Vacuum Oil Company in behalf of the 50,000 Mobilgas Dealers from coast-to-coast.

Socony-Vacuum believes that an informed America is essential to winning this war and that the American people will welcome Mr. Swing's frequent, able analy-

ses of world events. We invite you to listen to these informative broadcasts—a wartime service which we feel is just as definitely in the public interest as the careful service Mobilgas Dealers today are giving to America's wartime cars.

SOCONY-VACUUM OIL COMPANY, INC., and Affiliates:
Magnolia Petroleum Co., General Petroleum Corp. of Calif.

PRESENTED IN BEHALF OF

Your Friendly Mobilgas Dealer

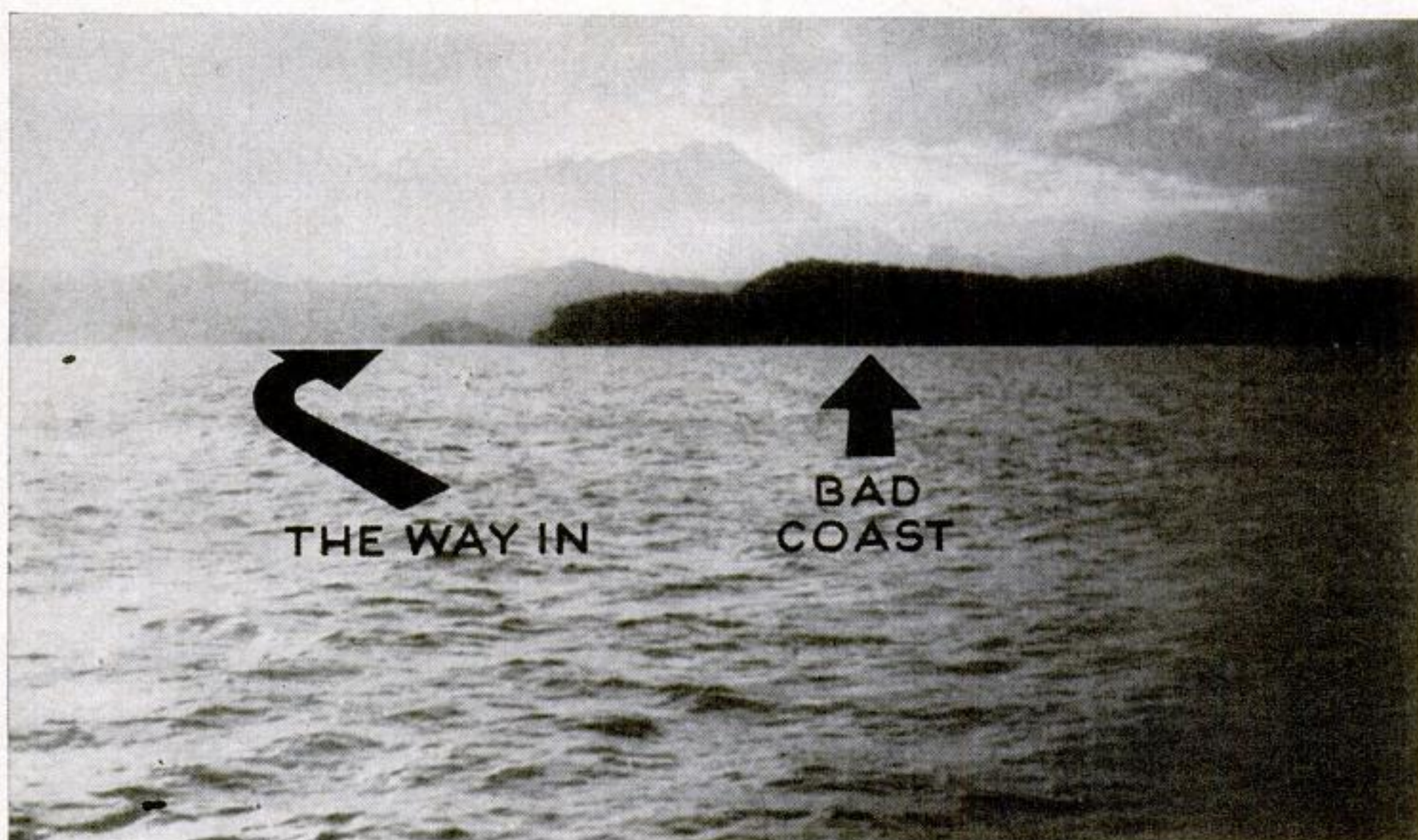
INVASION

Many amateur photographers can help

Spread over the world are places of military importance which the United Nations must capture to win the war. These campaigns will need sound planning.

For such planning, maps are necessary, but are not always sufficient. Military authorities need pictures to supplement maps and to supply strategical information. Pictures can show many vital military details. They are used to estimate width and composition of roads (*top right*), if armored equipment is to be used. Shore and tidal conditions can be determined for landing operations (*below*). And approaches to important buildings and installations can be studied.

Here on these pages are pictures and a map of Fitzhugh Island. Fitzhugh Island cannot be found in any atlas since it is merely a mythical island created by LIFE to show the method whereby amateur pho-



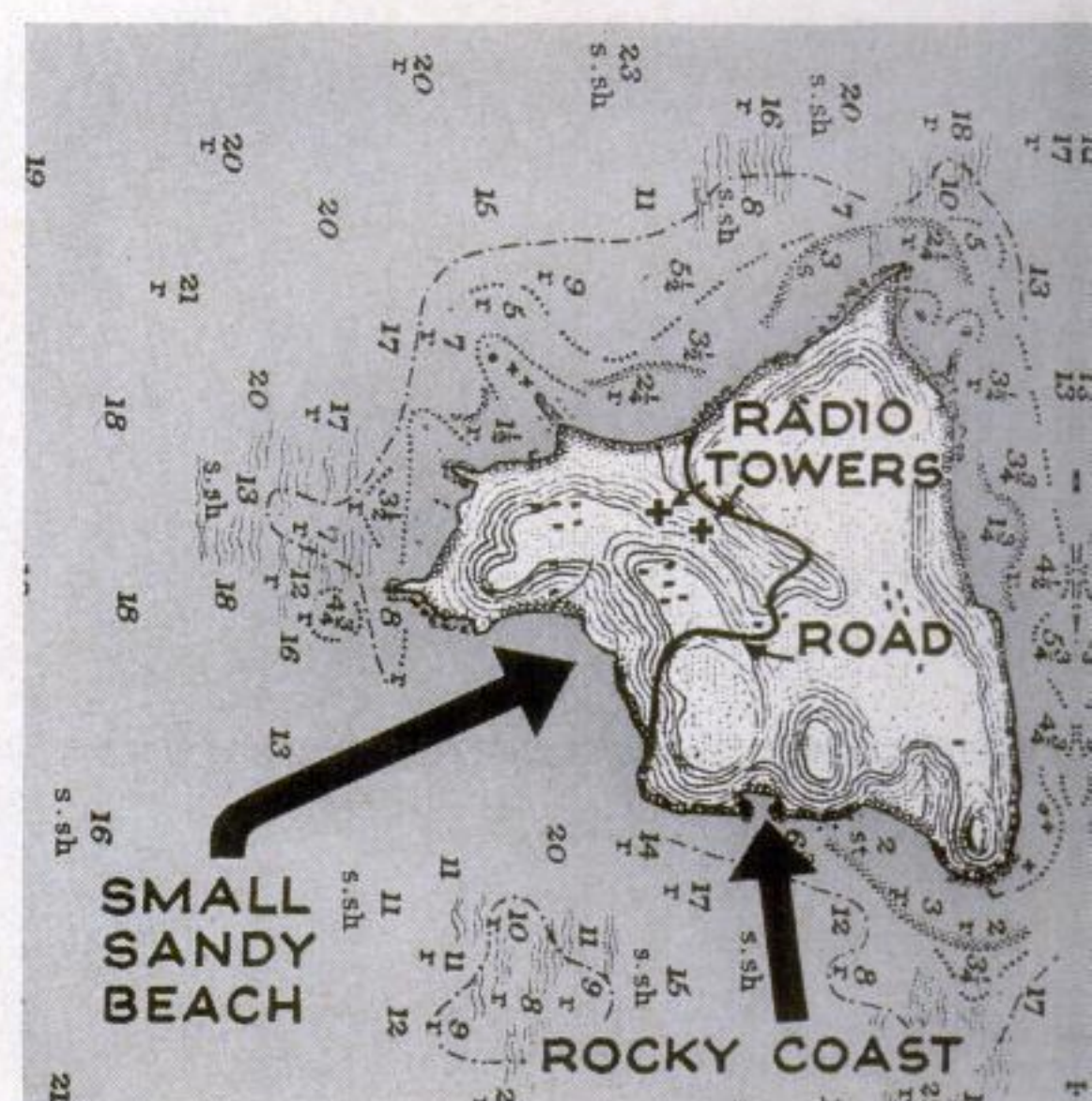
Approach to Fitzhugh is deceiving. Landfall is a high bluff which drops abruptly down to water's edge and is not good for landings (*see below*). Best landing spot for an attacking

force is sloping beach to left of landfall. To avoid disastrous mistakes in landing operations, all the landmarks must be completely understood and carefully identified.

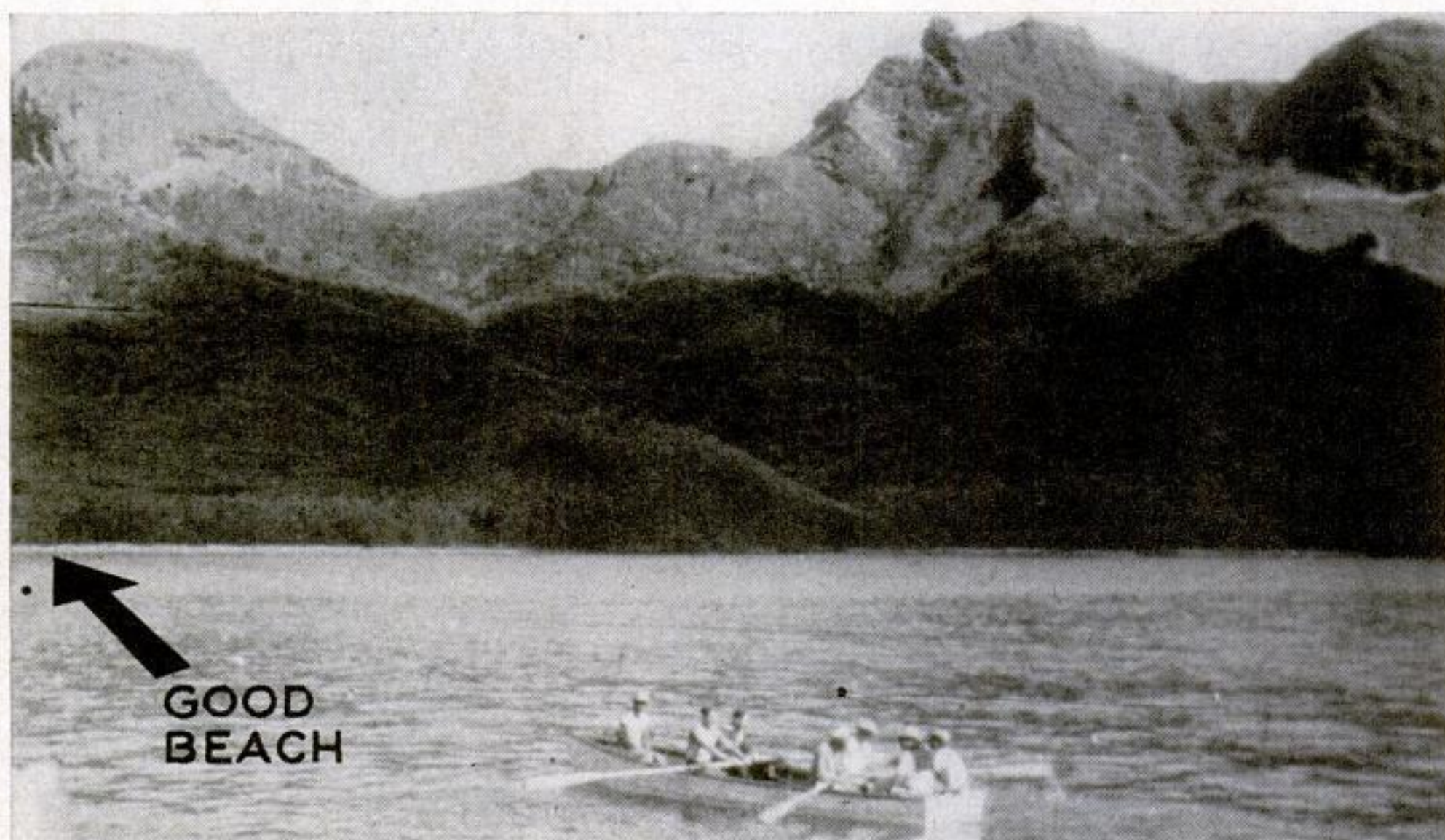


At bad landing place, the raiding force would have sailed directly to the landfall, come up against the high bluffs. Enemy defenders perched safely on the heights could easily

have blasted them out of the water. Extreme care must be taken to insure that immediate cover is at hand to help the landing operations and screen the infiltration movements.

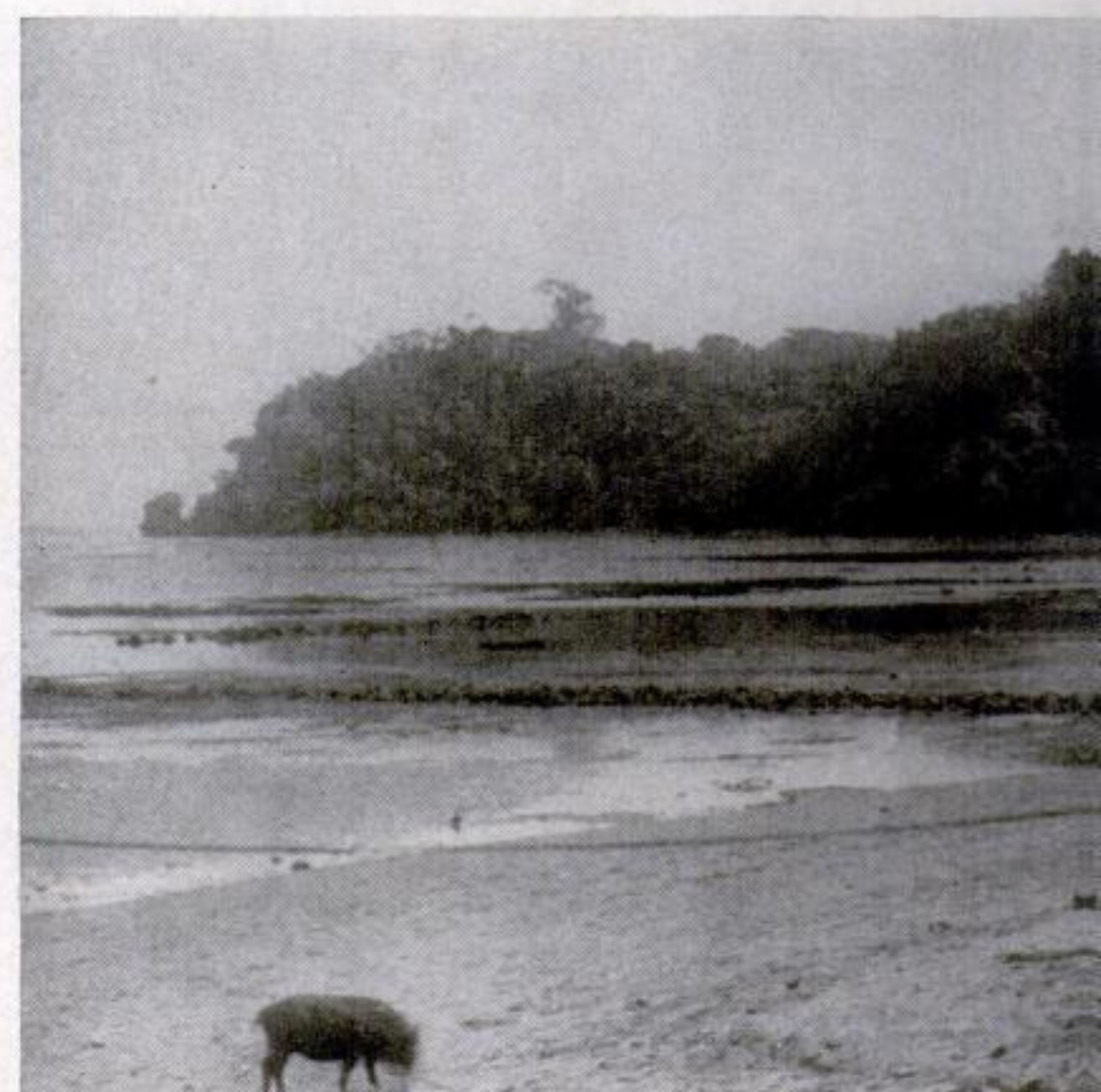


Fitzhugh Island, a small and almost insignificant mythical dot in the ocean, is important to the United Nations because a powerful enemy radio station operates there. It must be destroyed.



Safe landing is made at sandy beach where covering woods run right down to the water's edge. Here the attackers can run in under the cover of their ships' guns, force their

landing, take immediate shelter. All such landings have to be painstakingly rehearsed to avoid even the slightest error which might upset the entire plan of the raiders' attack.



Beach is sandy and has covering trees that come right down to the shore. However, the important military factor of precise timing must not be overlooked. The tides at Fitzhugh Island

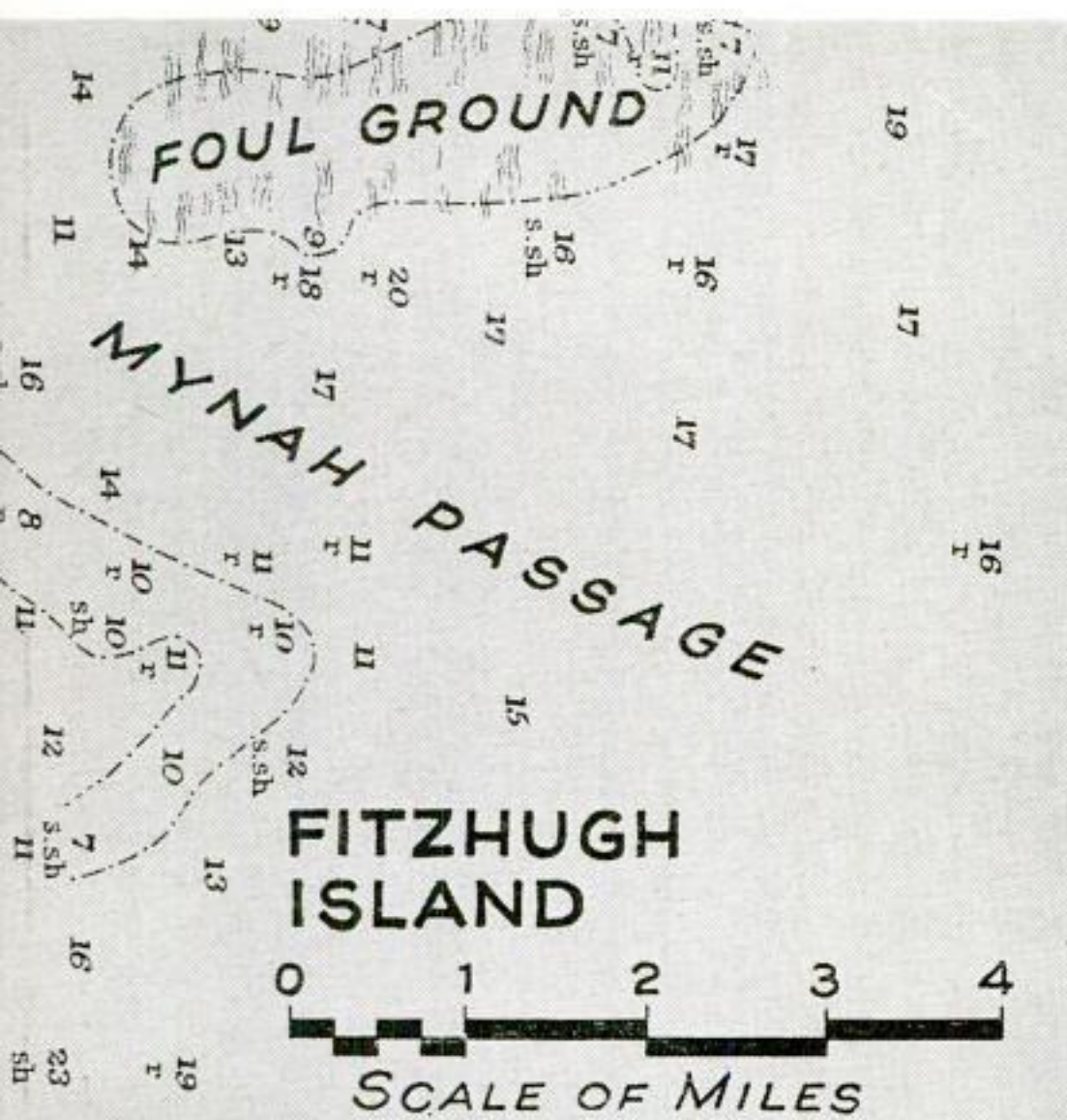
PLANNING

work out future U. S. war operations

tographers can cooperate with military authorities to help build future war plans.

Amateur pictures have already played key roles in working out raid plans for the British (see *Brunei raid*, next page). The U. S. Office of Strategic Services, a civilian agency operating under the Joint Chiefs of Staff, is procuring data for use by the military services and needs all photographs (stills and movies) taken by tourists outside the U. S., in Europe, Asia, the Philippines, South Seas, Africa. All types are useful, even family groups (top right).

To facilitate handling they ask all photographers with such pictures to write for questionnaires to the Office of Strategic Services, P. O. Box 46, Station G, New York, N. Y. They particularly ask that questionnaires be sent in before the pictures are mailed.



The first step is to get a hydrographic map which charts depths of water, the positions of reefs and passages. This obtained, pictures must be carefully studied for detailing physical features.



are usually extreme and, as this picture shows, any landing boats brought in to the shore during high tide might be stranded on the beach, thus cutting off the landing party's escape at low tide.



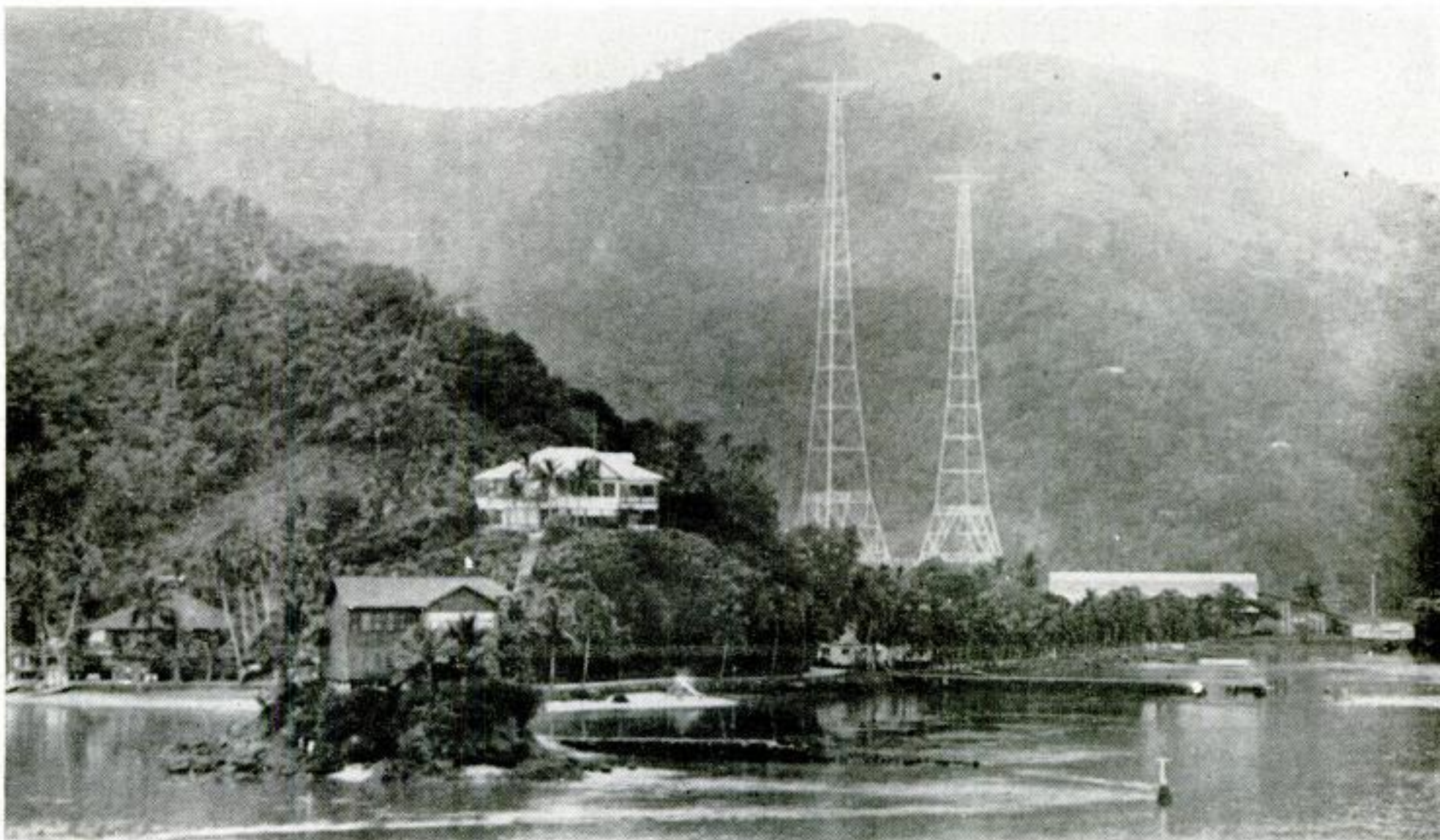
This typical tourist picture is actual key to attack. Tourist photographer estimated man's height from which approximate width of road was figured. Magnifying glass shows

that road was limestone, thus tank-bearing. Marine experts studied ship in background, its position in water and proximity to shore and made valuable suggestions for landing.



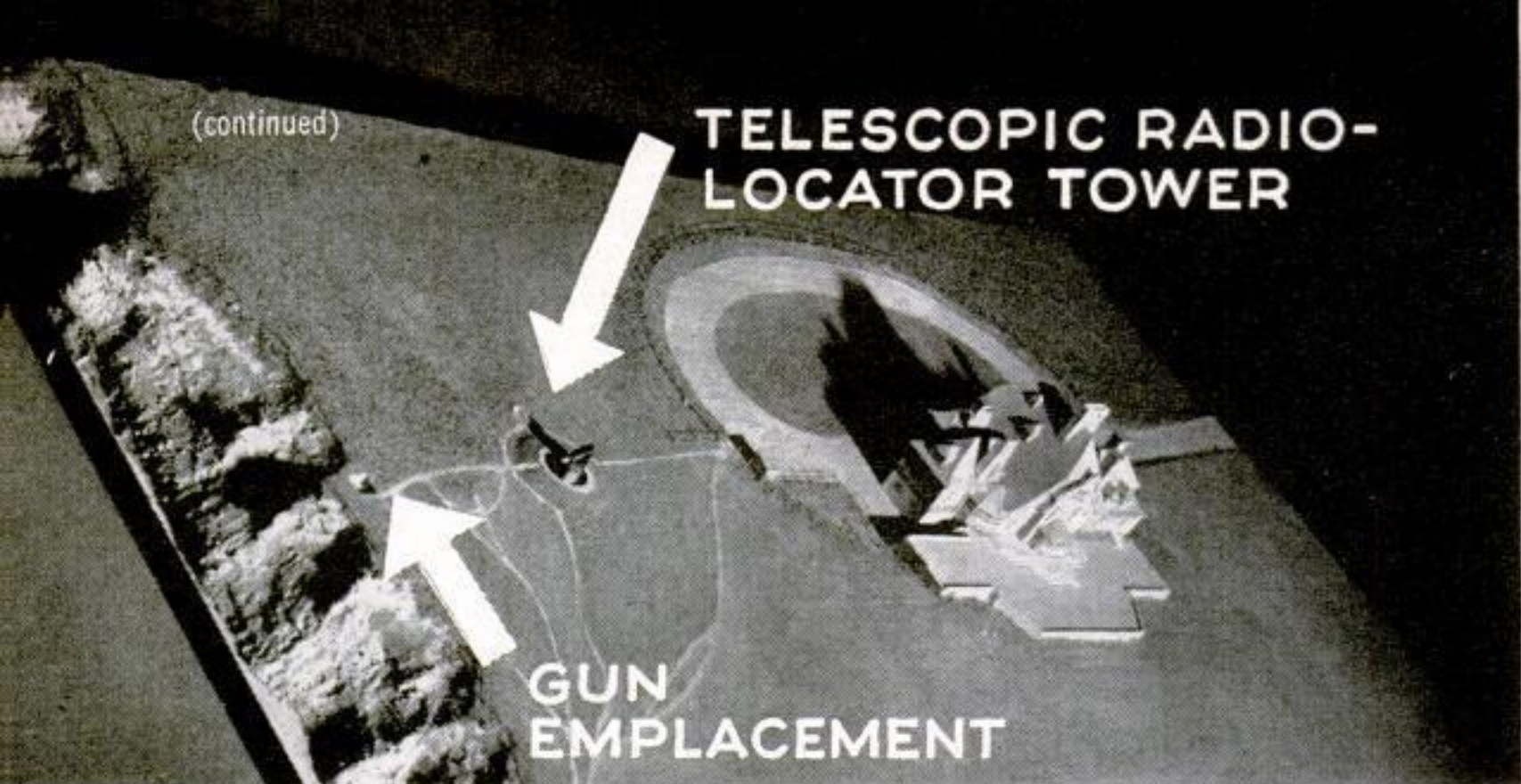
Mountain road leading to objective shows up on the map as mere thread winding through hill country. This amateur photograph shows that the landing party must be prepared

to traverse rugged trails through tough country. By predetermining composition of the road (above) they know they can make the dangerous run in heavy armored equipment.



The objective, these tall radio towers, are an important link in the enemy's lifeline cutting across this area of the war. They must be blown up quickly and thoroughly. All of

these pictures, which came from professional sources and from dusty family albums, have been woven by Army raid-planning experts into an instrument of high military value.



Scale model of radio-locator station at Bruneval was made for detailed study before actual operations were undertaken. Model was used by Commando chief, Lord Louis Mountbatten.



The objective, the radio-locator station, was housed in a chateau atop the cliffs at this Normandy summer resort. The Germans had put a gun emplacement at top of the cliff (see left).



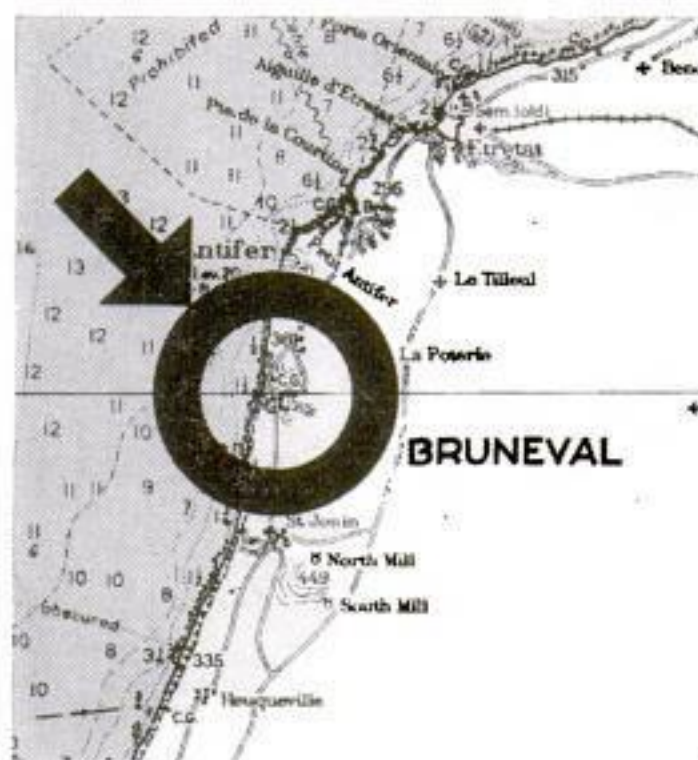
Wooded valleys leading back from the shore were used as a covering by the attacking paratroopers. They were landed from low altitudes by bombers within ten yards of desired spot.



Landslides on face of the cliff left huge piles of rubble on the beach. Commandos reaching the shore in boats had to be very careful when landing to avoid being boxed in by the slides.

COMMANDO RAID

English tourist pictures of French coast help the Commandos execute a daring raid on enemy positions



Last winter the British military authorities broadcast over the radio asking all people who had spent holidays along the northern coast of France to send in any pictures they might have taken. Among the pictures that flooded in were the two at the bottom of the page.

Last Feb. 27, a night brightly moonlit and with a touch of mist, the British attacked Bruneval, twelve miles up the coast from Le Havre. They were after a radio-locator station. Paratroopers were dropped to hit the

main objective while commandos landed on the beach below as a "covering" party. The Fighter Command carried out "diversionary" tactics.

It was a masterpiece of timing and thorough planning. So finely worked out was each detail that no serious opposition was encountered until all objectives were destroyed. The entire operation took only two hours.

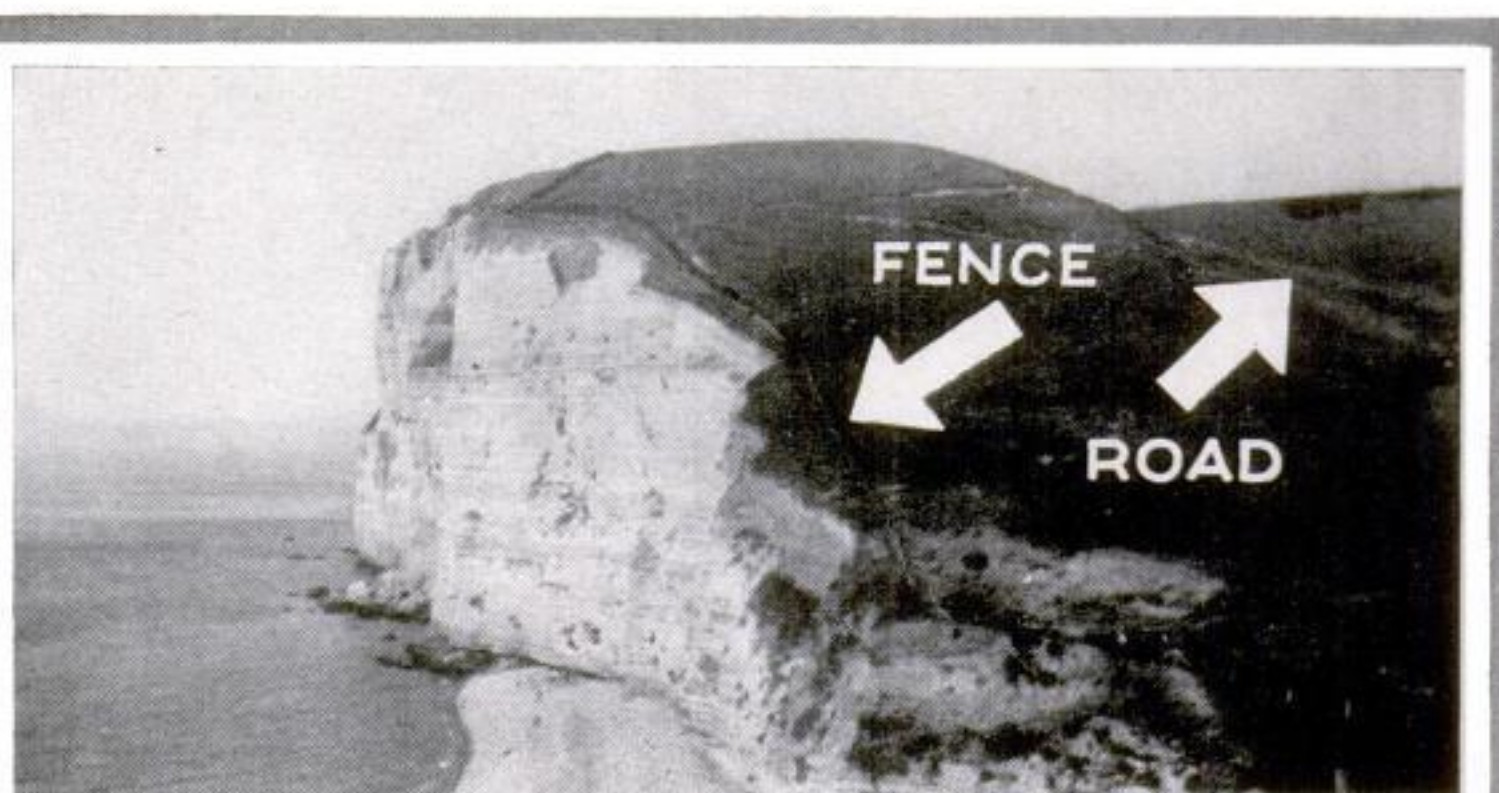
The reason for the success of the raid was that the British knew the exact locations of everything they were after; they were able to work across the countryside in total darkness. They knew what to expect.

When the raid was first planned all they had to work on were a coastal map (above) and some aerial photographs (left) taken by low-flying R. A. F. pilots. These were not enough. They did not know how wide the beach was or whether mobile equipment could be landed if needed. Nor did they know about the road at the top of the cliff. Until they had such information the raid was too risky.

The two pictures (below) made the whole attack possible. They were the missing keys in the Commandos' pattern of planning. With them in hand, the British were able to study all the possible approaches, make a scale model of the radio-locator and carry out the raid without a hitch.



Tourist photograph shows Norman fishermen and nets on the beach. Cars (upper right) prove that beach is firm enough and wide enough to allow mobile equipment to be landed.



The fence running along the top of the cliff had to be counted on in planning the raid. Beyond it is the curving road from the beach which led toward the radio-locator station.



Help Your Son Be An All-American!

Growing Feet Need Shoes with

BUILT-IN FIT

LOOK AHEAD! Picture your son twisting out of tacklers' arms . . . racing to a touchdown! Thank goodness, his feet were not neglected in childhood.

Boys' and girls' shoes must fit growing feet correctly . . . *as long as they are worn*. If they soon lose their shape they are as dangerous to delicate, pliant, growing feet as shoes improperly fitted. So never buy children's shoes on looks alone.

Insist on Poll-Parrot and Star Brand Shoes with *all ten* BUILT-IN

FIT features—listed below. Combining quality materials, scientific construction, pretesting, widest range of lasts, and the vast experience of the world's largest shoe manufacturer, these shoes are built to fit right *before* they are worn . . . and give vital, *lasting* fit.

Be sure! Demand Poll-Parrot and Star Brand Shoes. Boys and girls love their grown-up styles for all occasions. Roberts, Johnson & Rand, Division of International Shoe Company, St. Louis, Missouri.

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1. Room for growing toes
2. Correlated heel-to-ball fit
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HELP UNCLE SAM. BUY UNITED STATES
WAR BONDS AND STAMPS



Poll-Parrot

AND

STAR BRAND SHOES

with BUILT-IN FIT for Boys and Girls



FALL FRUITS

This year the plentiful harvest
is frugally picked and preserved

In past autumns, fruit-clustered orchards and beautiful roadside fruit-and-vegetable stands (*opposite page*) meant little to people except that the land was rich and the harvest lovely. But this year America's fruit and vegetable harvest means much more.

This autumn children stay out of school to pick crops which otherwise would waste for lack of labor. This year people buy wisely at roadside stands because now is a time for saving and preserving. Kitch-

ens have become small-time canneries and have been filled with fine fragrances—the smell of cidery apples, of pungent tomatoes, of clove-spiced peaches, and always of sticky sugar and sharp vinegar.

Statisticians sum this up by explaining that farm families this year are putting up an average of 243 jars of preserves and that city families are putting up 41 jars, all of which is half as much again as is usually done in this abundant and never-frugal land.

HIGH-SCHOOL BOYS ON LEAVE FROM CLASSES PICK MCINTOSH APPLES FROM THE HEAVILY HANGING BRANCHES IN FARMER HILDBRANT'S ORCHARD IN THE HUDSON RIVER VALLEY







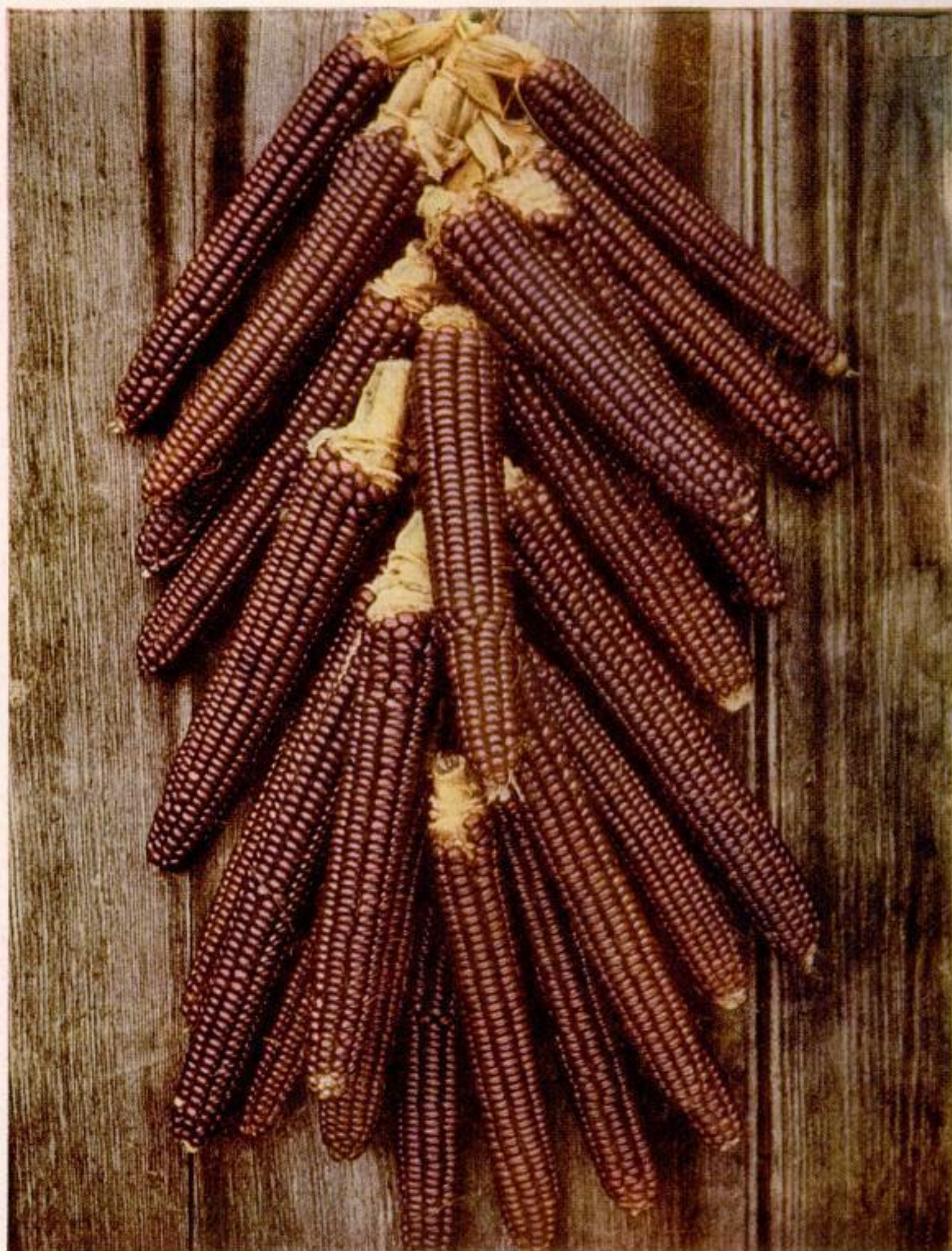
STURDY JONATHAN APPLES KEEP THEIR JUICY TARTNESS THROUGH THE WINTER



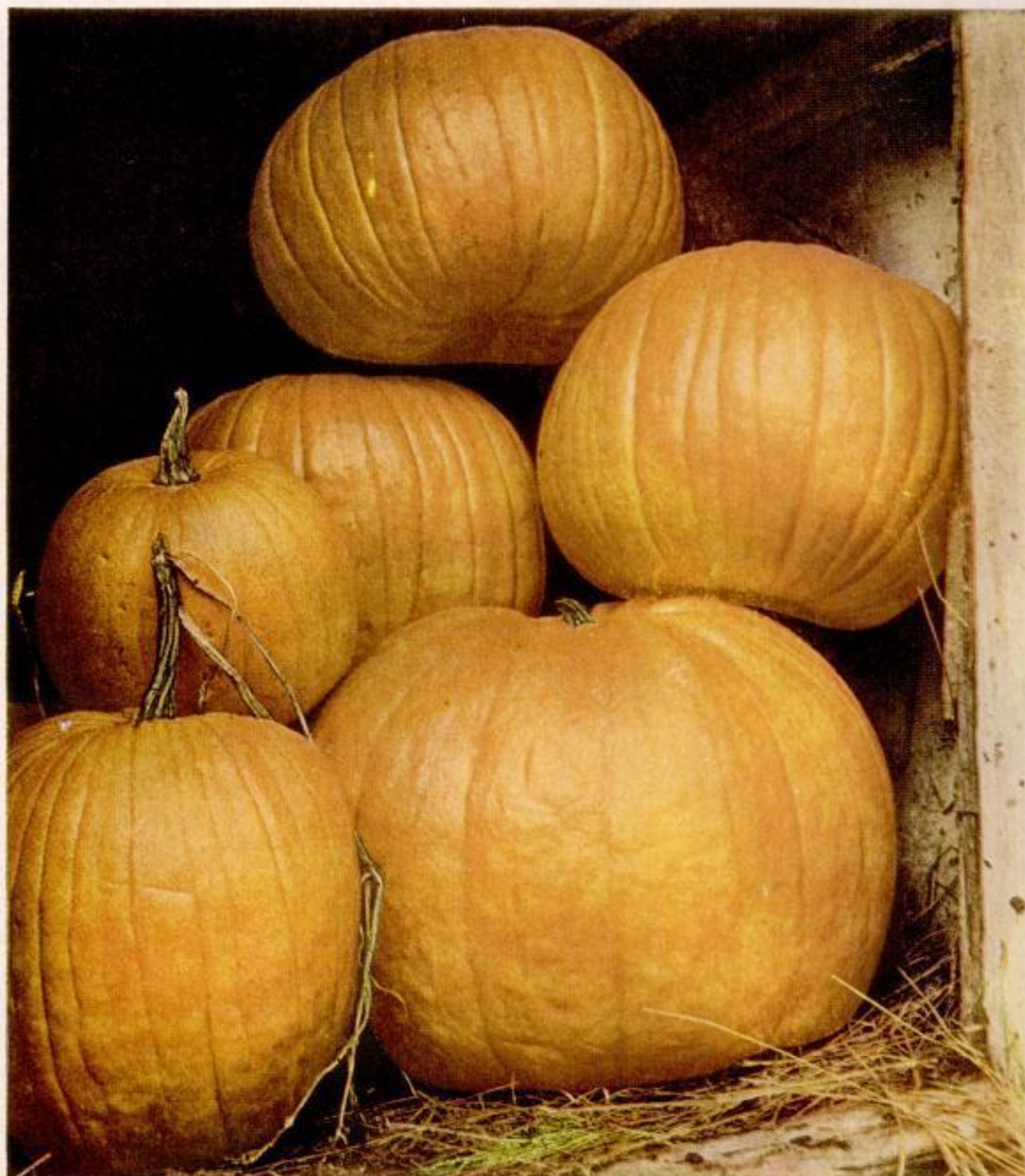
THE SILVERSKIN ONIONS' PUNGENT SMELL HIDES A TENDER AND DELICATE FLAVOR



CONCORD GRAPES' SWEET AND PURPLE SKIN COVERS TART PULP AND TANGY JUICE



Mexican corn, one of the more primitive kinds of corn, has colored kernels which are too hard for table eating. But it makes excellent cattle food and also hangs prettily on the barn door.



Field pumpkins grow so big and round that a strong man can hardly lift one to pile it up neatly in shed. At left are Ruby King peppers whose skin is mild but whose seeds burn the mouth.

PROBLEM: Pick The Men Who Are "Going Places"...



SOLUTION: Carefully study the big photograph above, and you'll see that *good appearance* counts plenty! The boss has his eye out for worthy men. Why take a chance with work clothes that don't match your ability? Try on a Lee Overall, Union-All, or Shirt & Pants Outfit. They not only look better, but Lee "Tailored-Sizes" give you better fit, more comfort. They wear longer, too, or your money back! See your nearest Lee dealer!

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UNION-ALLS — OVERALLS
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Electricity from the sun—to heat your home in winter and air-condition it in summer. To reduce your light bill . . . and furnish cheaper power for every factory. It's coming—when the sun ray electric generator is perfected by Men Who Think of Tomorrow!

★ ★ ★

DO YOU REMEMBER when the Texas Centennial was celebrated? When "Anthony Adverse" first appeared as a movie? When sit-down strikes originated in France? That's the year the rare whiskies in Seagram's V.O. CANADIAN were carefully blended and put away to mellow for *Tomorrow*. Seagram's foresight keeps Tomorrow always in mind—so that you may always enjoy the famous Canadian flavor, the reassuring lightness of Seagram's V.O. Try some tonight—FOR THE WORLD'S LIGHTEST HIGHBALL.

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CANADIAN WHISKY • A BLEND OF RARE SELECTED WHISKIES

Six Years Old — 86.8 Proof. Seagram-Distillers Corporation, New York



PROGRAM FOR "THE PIRATE" IS PAINTED ON A BIG CURTAIN. BEFORE IT SIT ALFRED LUNT AND LYNN FONTANNE TALKING TO JOHN WILSON (LEFT) AND AUTHOR SAM BEHRMAN

THE PIRATE

The Lunts in full plumage open their new comedy in Madison, Wis.

In their first new comedy in nine years the eminent acting team of Alfred Lunt and his wife, Lynn Fontanne, opened last month in Madison, Wis. They chose to start their pre-Broadway tour in Madison mainly for sentimental reasons. Lunt was born in Wisconsin, spends his summers there and has many old friends at the State university.

The Pirate is a larkish blend of musical comedy, poetic farce and circus, obviously designed to cheer a wartime public. Its fantastic love story would have

been duck soup to Shakespeare in his best *Twelfth Night* manner. But S. N. Behrman, dean of American sophisticated dramatists, handles it well enough. As it is almost his first comedy outside a drawingroom, he is naturally a little at loose ends in the fresh air.

Considering its full bag of tricks, *The Pirate* is a brilliant carnival. The lustrous Lunts strut their old stuff. The luxuriant scenery and costumes are as dazzling as a jungle full of parrots. And Herbert Kingsley's offstage music is continuously blandishing.

In this million-dollar theater at University of Wisconsin in Madison the Lunts gave world premiere of *The Pirate*. They opened this new theater in 1939 with *Taming of the Shrew*.

The Lunts meet an old friend, Dr. Andrew Weaver, head of Wisconsin's speech department. They perch on balcony of the university theater which overlooks beautiful Lake Mendota.



Ready for Action!



Blackie: "Nothing can stop us now, Whitey!"

Whitey: "Nothing has ever stopped us before, Blackie."

● Black & White is still carrying on — even under difficulties. And the Black & White you drink today is just as fine as you have always enjoyed, for every drop of this famous Scotch was made in Scotland long before the War — eight years ago!



EIGHT
YEARS OLD

"BLACK & WHITE"

The Scotch with Character

BLENDING SCOTCH WHISKY • 86.8 PROOF

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"The Pirate" (continued)



ALFRED LUNT AS A STROLLING ENTERTAINER MEETS LYNN FONTANNE WHO



Lunt walks tightrope to bedroom balcony of the trader's wife to prove his devotion. Also to win her he poses as a famous pirate whose reputation she greatly admires.



PLAYS MANUELA, BEAUTIFUL UNLOVED WIFE OF A RICH WEST INDIES TRADER



Manuela learns from her husband (Jack Smart) that he is really the pirate whose exploits she reads about. Grown fat and domestic, he now lives under another name.

CONTINUED ON NEXT PAGE

MORNING...
noon...

BARONA • Aristocrat of the tie class! Rich, Black Crushed Kid... classic, Black Patent trim... Cuban heel. Vitapoise Feature.



LIDO • Stunning pump for dress or street! Black Calf or Golden Tobacco Calf (bootmaker finish). Also Black Suede... Peasant heel... striking bow.

or night...



ORCHID • Distinctly comfortable gadabout! Soft Black or Golden Tobacco Calf... Comfy heel. Smart glove-stitch accents vamp and bow.

GAUVIN • Flatteringly youthful spectator! Black Suede with Calf trim. Dainty open toe... Cuban heel. Elasticized.

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Complete Range of Sizes and Widths
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Skiers and golfers started the swing to Bantamac but now everyone's wearing this functional jacket...for countless outdoor activities—walking, bicycling, civilian war duties,

OF MANY

going to and from the job. You too will enjoy wearing a Bantamac. It's so versatile and casual that you'll find yourself slipping it on almost

USES

every time you step outdoors. Scientifically designed for freedom in action, year 'round comfort and protection—rain, shine, wind, snow. At leading stores: \$5 and up.



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ANY WEATHER



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Makers of Briar Club sweaters and leather jackets

"The Pirate" (continued)



Lunt pleads with viceroy who comes to jail him because Lunt has boasted that he is the wicked pirate. Viceroy agrees to let him give his show before throwing him in jail.



Lunt as a magician pulls a rabbit out of a chafing dish and performs other miracles. By professional standards Alfred Lunt is a poor magician, but has wonderful manner.



Lunt mesmerizes Manuela at the show in front of the viceroy. In her trance she divulges startling information which brings *The Pirate* to a suitably romantic climax.

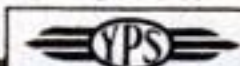


Buy War Bonds TODAY

YPS KITCHENS TOMORROW

The LONG LINES of mammoth presses that last year turned out thousands of carloads of YPS Planned Kitchens are on ANOTHER job now—but after the Axis is smashed — Youngstown Pressed Steel will again be turning out YPS Kitchens, planned for tomorrow's requirements.

War Bonds Today . . .
YPS Kitchens Tomorrow



YOUNGSTOWN
PRESSED STEEL DIVISION
Mullins Manufacturing Corporation
WARREN, OHIO

A hot welcome
for worms!



—SAYS "OLD SARGE"

Worms are every dog's worst enemy. They soften him up for diseases, spoil his disposition and usefulness.

We're on watch to spot worms. We give 'em the works—with Sergeant's SURE SHOT Capsules (Puppy Capsules for pups, small dogs). That's the sure way to wipe 'em out! Sergeant's Vitamin Capsules (Vitapets) help build the patient back to health.

Keep your dog in top condition with famous Sergeant's Medicines. At drug and pet stores—and a free Dog Book.

FREE SERGEANT'S, Dept. 3-K, Richmond, Va.
Please send me a free, 40-page, illustrated Sergeant's Dog Book.

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Sergeant's
DOG MEDICINES

Today...it's the American Way...to choose *Beauty that Endures*

Of course, we've *always* wanted beauty. But, today we look further than *today*. We use our good native American sense to look for lasting qualities, too... for beauty that *endures*. That's the sort of beauty woven in Mohawk's SUPER TAMPA AXMINSTER—the carpet that has colors rich as American sunsets... patterns styled for "picture rooms"... and firm, close weave for thrifty years of service, too. Your Mohawk dealer will show you Super Tampas and many other Mohawk styles and fabrics—priced at what you plan to pay. Mohawk Carpet Mills, Inc., Amsterdam, N. Y.

MOHAWK **RUGS and CARPETS** *in Foundation Colors*



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Because so many of the facilities for the manufacture of rugs and carpets have been converted to the production of essential war materials, Super Tampa Axminster and other grades may be had in limited quantities only.

Love Story

One Hundred Years Old



Ships like the steam-and-sail frigate, Philadelphian, plied the world trade routes back in 1842, bringing home rare fruits and nuts and spices for the confections of Stephen F. Whitman.

THIS IS WHITMAN'S HUNDREDTH YEAR!

A hundred years of making fine candy? Yes, but more than that. For a box of Whitman's helps love make the world go round. Over the years most folks have come to look on Whitman's as the one best kind of candy, a gift so fine it touches the heart with a special thrilling warmth.

This is a time when kindness and remembrance of love's little ways count high. Your word or act of thoughtfulness is needed more than ever now to buoy up faith and courage.

Remember this. And remember Whitman's...one hundred years of the confectioner's skill make it a gift most cherished of all.

A WOMAN NEVER FORGETS THE MAN WHO REMEMBERS





GENERAL GEORGE MARSHALL, CHIEF OF STAFF OF U. S. ARMY, CARRIES HIS OWN LUNCH TRAY AT OUTDOOR CANTEN RUN BY AWVS

WASHINGTON EATS

ITS WAR LEADERS TAKE QUICK LUNCHES IN A CROWDED CITY

When historians write the record of World War II, they may discover that what helped to win the war for the U. S., along with planes, guns, tanks and ships, was the quick lunch.

The quick lunch will help win the war because it saves time for busy people. In no city in all the world are there more busy people, with less time to spend on lunch, than in Washington, D. C. But it is not easy to get a quick lunch in overcrowded Washington. With its normal 500,000 population swollen to more than a million, its 2,280 restaurants are bulged daily to far beyond capacity. Wherever a hungry office worker goes, it is difficult for him to get any lunch at all, let alone a quick one.

In most cases it probably makes little difference whether he gets a quick lunch or not. If he is patient, he will get something to eat sooner or later. But there is a comparatively small group of men in Washington whose jobs are so important and whose time is so limited that a quick lunch is a patriotic necessity.

When the fate of millions of people depends on their acting quickly and accurately, they cannot take time out to argue with a headwaiter about a restaurant table. To show how some of these important national leaders have solved the Washington lunch problem, LIFE presents these pictures.

Busiest and most important man in Washington, of course, is President Roosevelt. He almost always eats at his desk, from a superstreamlined stainless-steel steam table (right) which is rolled in to him. Next to Roosevelt, among the busiest is the loose-limbed, friendly general above, who is Chief of Staff of the tremendously expanded U. S. Army. Every major problem of his 4,000,000-man organization eventually comes to this No. 1 soldier for decision. He must direct the attack of the U. S. Air Forces on Germany, the defenses of the ground troops in Australia, India and Egypt, the training of soldiers in Louisiana. To save time, he is here having lunch at an outdoor service cafeteria operated by the AWVS.



THE PRESIDENT'S LUNCH ROLLS IN TO HIM



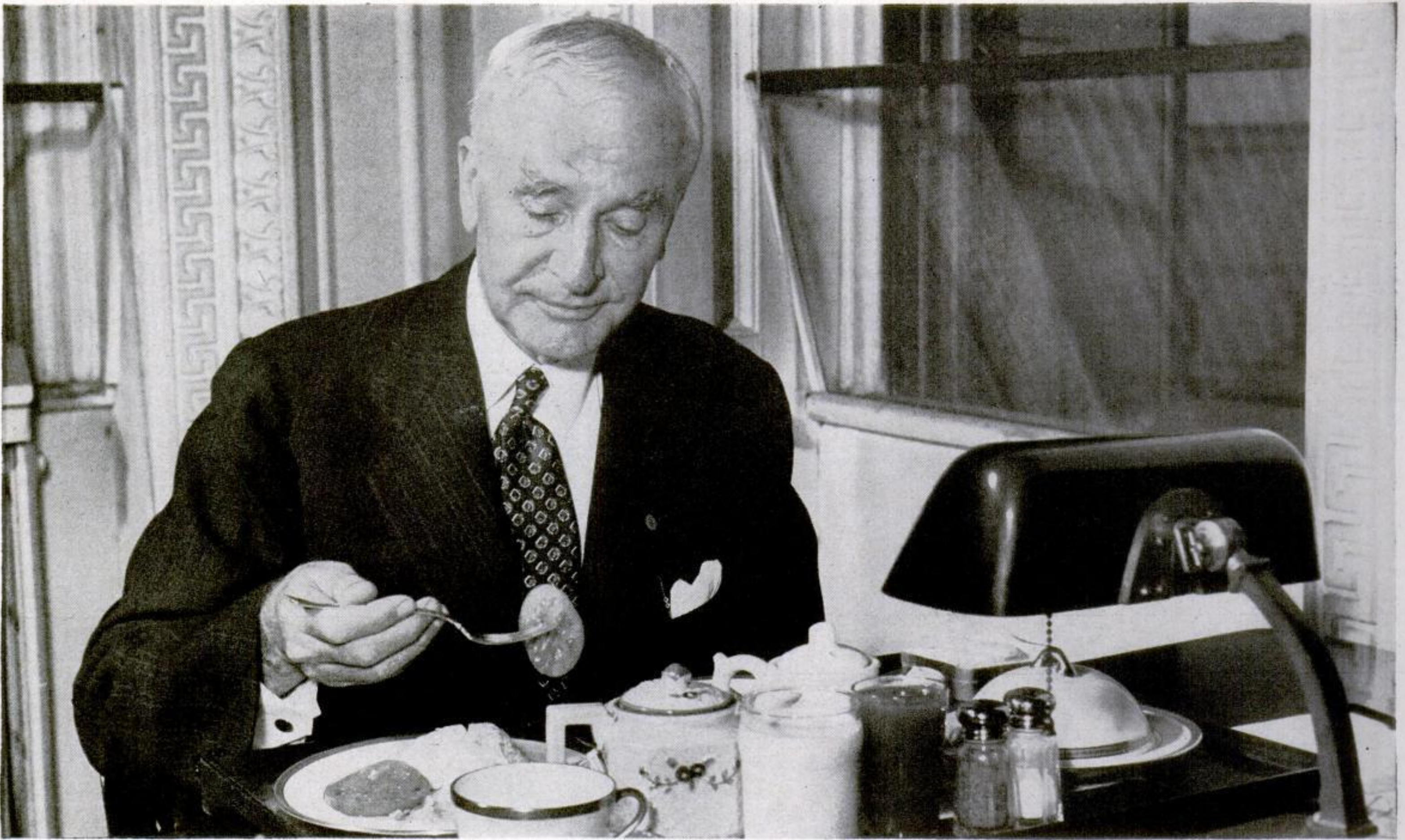
THE HIGH COMMAND of the U. S. Army, Navy and Air Forces meets regularly in one of Washington's most secret rooms, whose walls are entirely covered by maps of the world's fighting fronts. Here a quick lunch is served. Together these four men are responsible for all high U. S. military strategy. As senior naval officer and Chief of Staff to President Roosevelt, Admiral William Leahy (*left*) presides. His most important jobs are to offer sage advice and present to the President the plans of (*clockwise*) Lieutenant General Henry ("Hap") Arnold,

Chief of the Army Air Forces; Admiral Ernest King, Commander in Chief of the U. S. Fleet; and General George Marshall, Chief of Staff of the U. S. Army. Weekly this group, called the Joint Chiefs of Staff, meets with a corresponding group of English officers to become the Combined Chiefs of Staff and to coordinate the plans of all the United Nations. Such decisions as those on the second front or the bombing of Germany remind them that never in world history have such heavy responsibilities, affecting more people, been borne by military leaders.



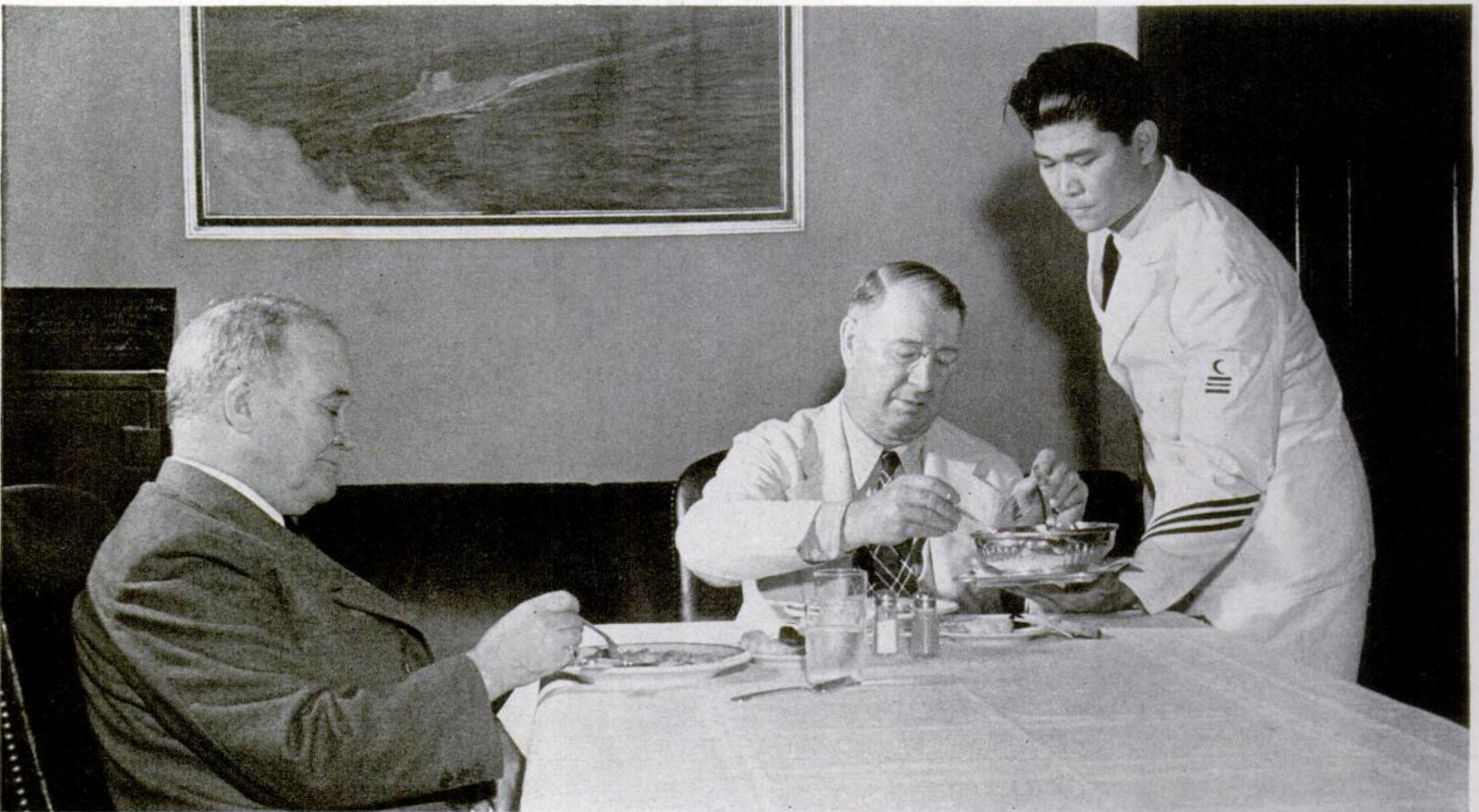
SECRETARY OF THE TREASURY Henry Morgenthau Jr. has a pot of tea at his desk in his office. From the wall behind him looks down a portrait of Albert Gallatin, Secretary of the Treasury from 1801 to 1813, who like Morgenthau had to find the money with which to run a war. During his whole term of office, however, Gallatin spent only about \$149,000,000, while in the fiscal year 1943 Morgenthau will spend over \$53,000,000,000 for war alone. Morgenthau cannot levy taxes. He can only suggest taxes to Congress. And lately,

many of the taxes he has suggested, like the spending tax, have been overruled. But the difficulty of Morgenthau's position is that his responsibility does not stop with defeat. Somehow, Congress or no Congress, the money must be found to run the war. He has therefore set higher goals for the sale of War Bonds and continued to sell more Government issues to banks, insurance companies and private individuals. Above all, he goes back again and again to Congress, urging higher taxes, lower personal exemptions, joint income taxes for husband and wife.



SECRETARY OF STATE Cordell Hull eats his lunch sedately at his own mahogany desk in the State Department. For both Hull and his Department Dec. 7 marked the end of an era. In spite of all his pleas that peace could be maintained only on the basis of free economic relations between nations, war had come. The year preceding had been strenuous, devoted to parleying with the Japs, attempting to postpone war until the U. S. Army and Navy should be ready. Dec. 7 was a disappointment, not a surprise, to the Secretary. After it was

over, tired with his work and his 70 years, Mr. Hull went south to Florida. He came back in the spring, invigorated and ready to tackle the Department's war problems. These include the delicate relations with Vichy, the good-neighbor problems of South and Central America, the question of what to do about Finland, the cementing of military and economic ties with China and Russia. Above all, his greatest problem and his greatest challenge is the postwar world. He is confident that lasting peace can only be established on the basis of the principles of free trade.

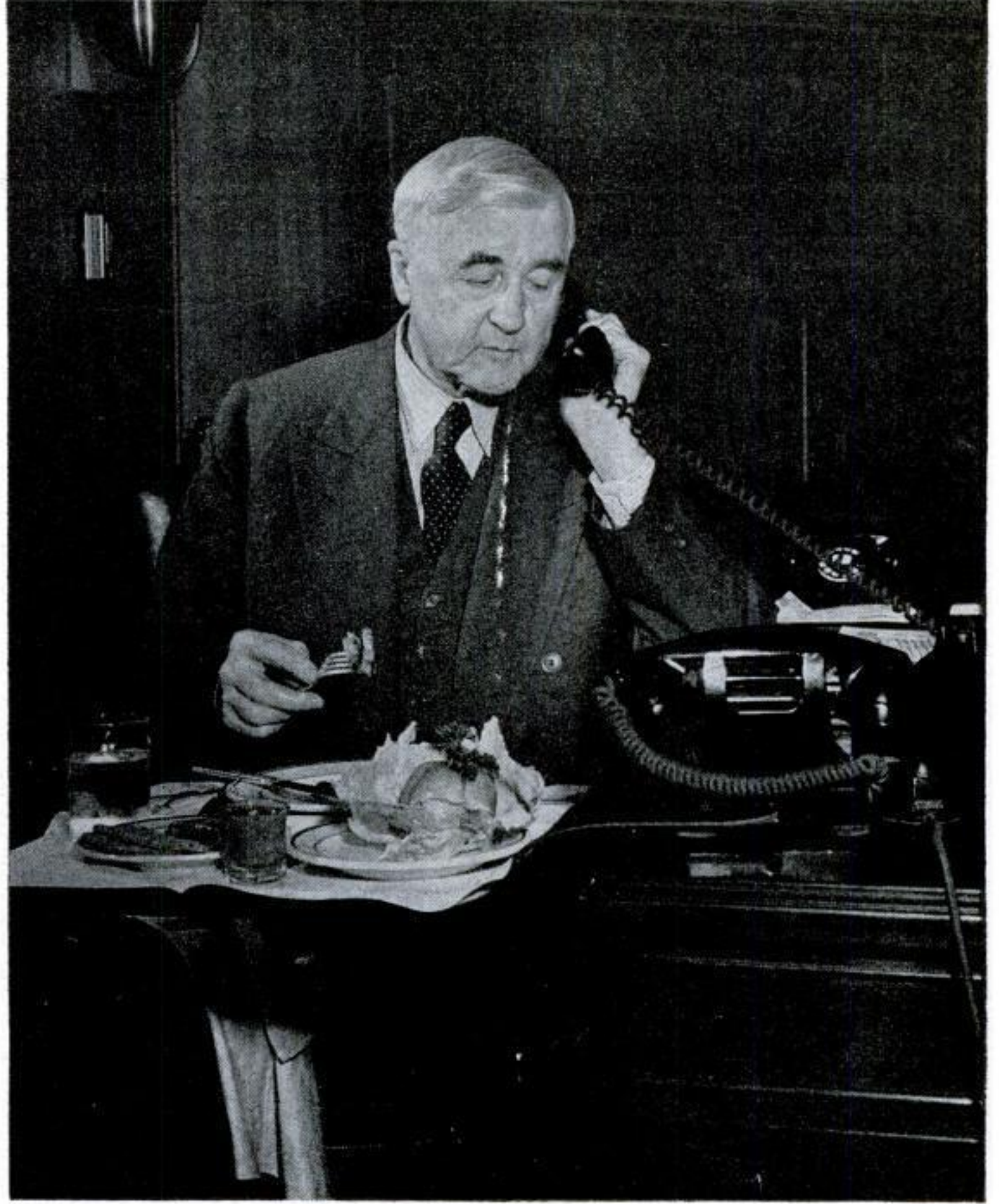


SECRETARY OF THE NAVY Frank Knox gustfully takes a second helping passed by a Filipino mess boy, while his guest, Sheldon Clark, president of the U. S. Navy League, toys with his food. Usually Knox serves a soup and salad, with no dessert. Responsibilities of his high office have not impaired either his appetite or his bellicosity. This is fortunate, because in wartime almost every U. S. citizen, especially Congressmen and Senators, thinks he can run the Navy better than the Navy can run itself. A newspaper publisher and editor be-

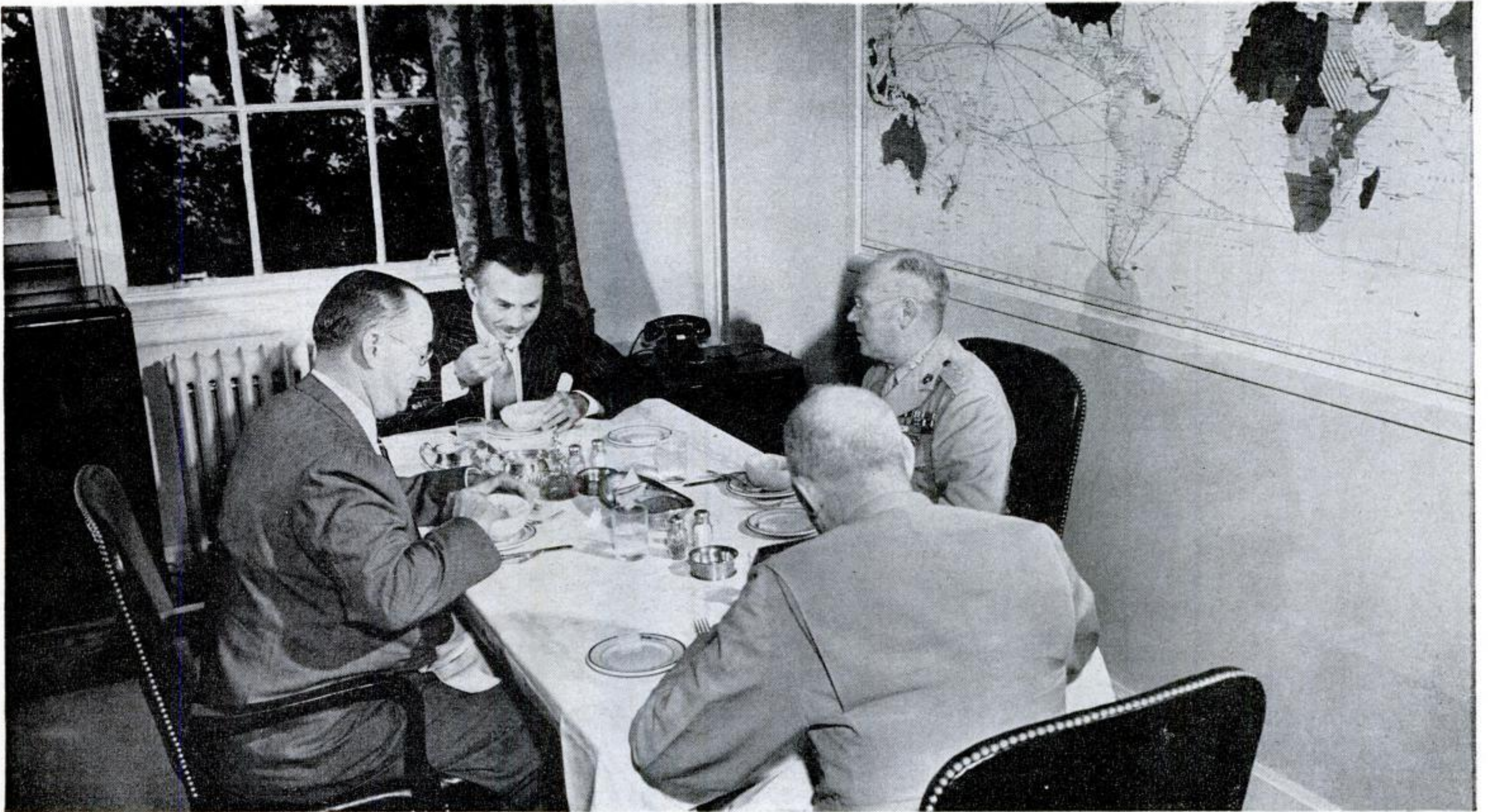
fore he became Secretary, Knox has never been known for his tact but has gotten along very well with Admiral Ernest King and other top-rung officers of the regular Navy. With them he must plan Navy policies all over the world, see that they get enough recruits, that shipbuilding program is ahead of schedule, that the Navy convoys Army troops safely through submarine-infested waters, that Navy task forces have planes and oil and food. Then he must report on progress of the Navy's war to the Navy-loving Commander in Chief, Franklin D. Roosevelt.



WAR PRODUCTION BOARD Chiefs Leon Henderson (*left*) and Donald Nelson eat lunch together in Nelson's office. Nelson, who is Washington's most ubiquitous figure at office lunches, also appears below in James Forrestal's office. Together Henderson and Nelson share the breathtaking job of organizing production for war. Nelson is in charge of the production and the allocation of raw materials. Henderson keeps leftover goods moving toward civilians and also, as Price Administrator, is in charge of civilian rationing and ceiling prices.

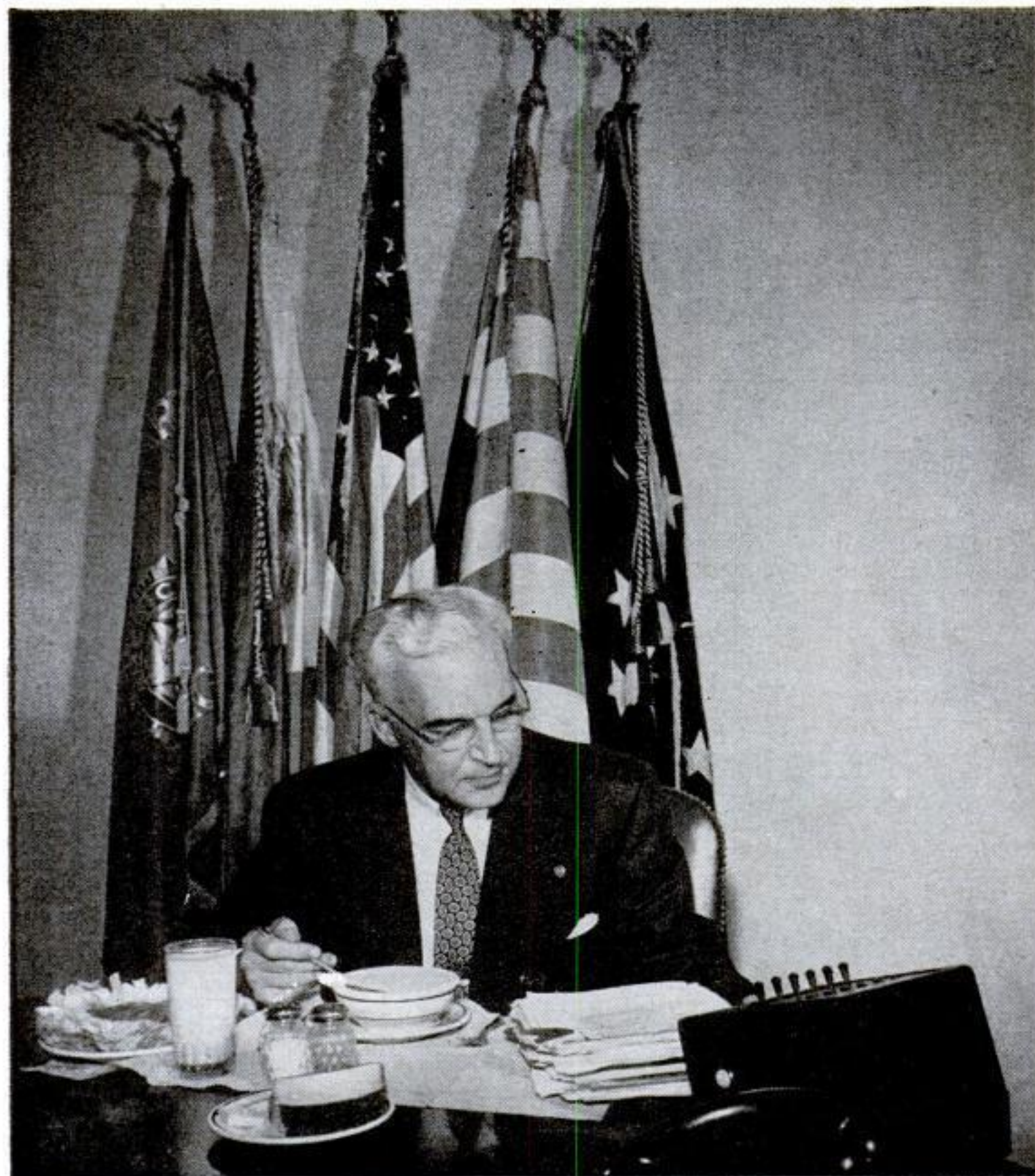


SECRETARY OF COMMERCE Jesse Jones eats in his own office every day, usually having soup, lamb chop, lettuce and tomato salad, rye crisp, butter and coffee. To define Jones's responsibilities would be to list virtually every organization within the national Government. Essentially, as Federal Loan Administrator, it is his job to finance the industrial plant expansion for waging war. He works closely with the President and helps Nelson with financing. Unlike Morgenthau, he does not borrow from the people but lends money to them.

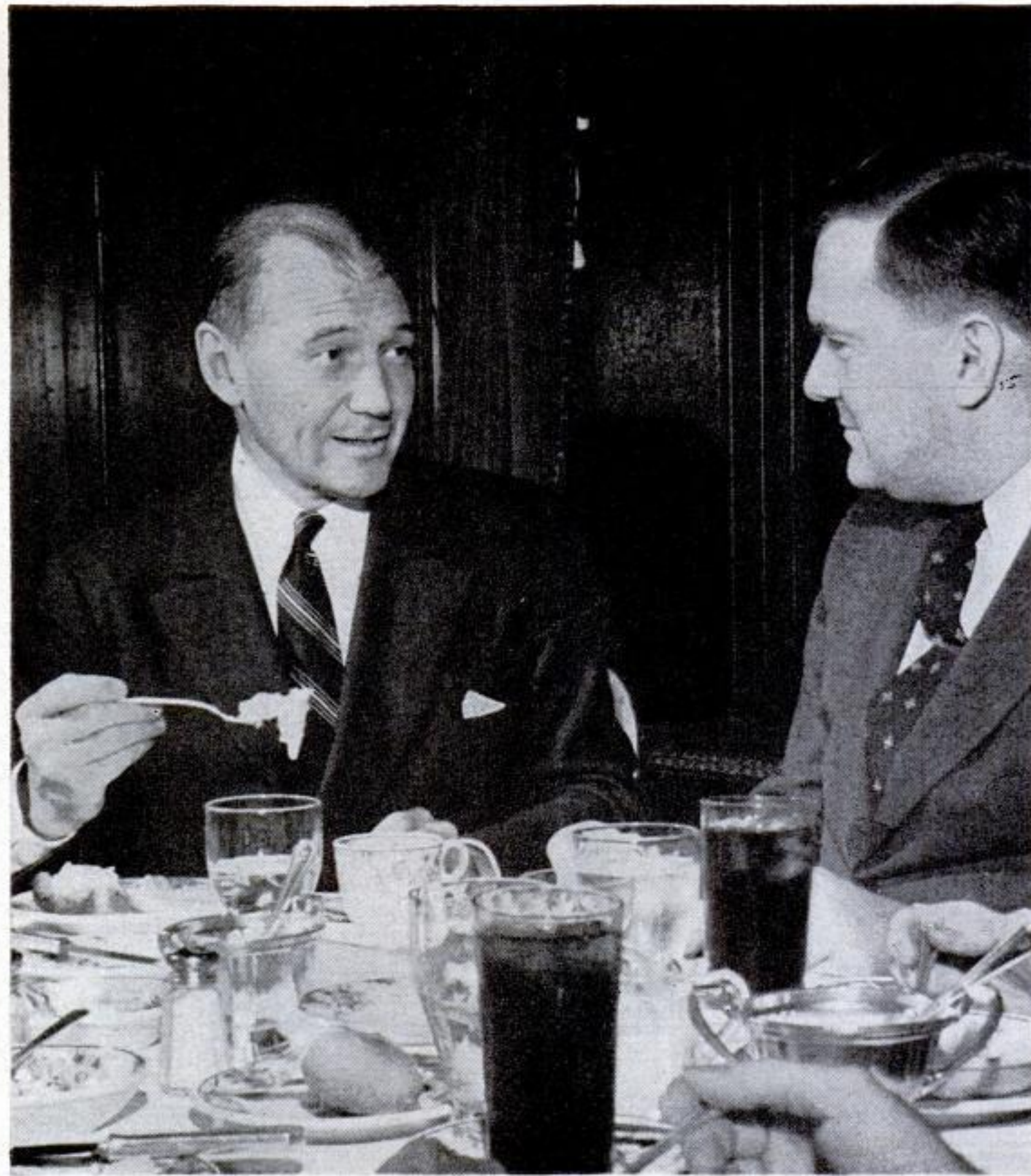


UNDERSECRETARY OF THE NAVY James Forrestal (*facing camera*) eats a quick lunch in map-bedecked side room just off his office. Usually he serves grapefruit, creamed chicken, ice cream or stewed fruit and milk. A quiet, pipe-smoking investment banker, he has one of the most responsible jobs in the war effort—the Navy's procurement program. Through him comes all material for the huge shipbuilding program. With him here, probably discussing his recent inspection trip to the Pacific, are Donald Nelson (*left*), head of the War Pro-

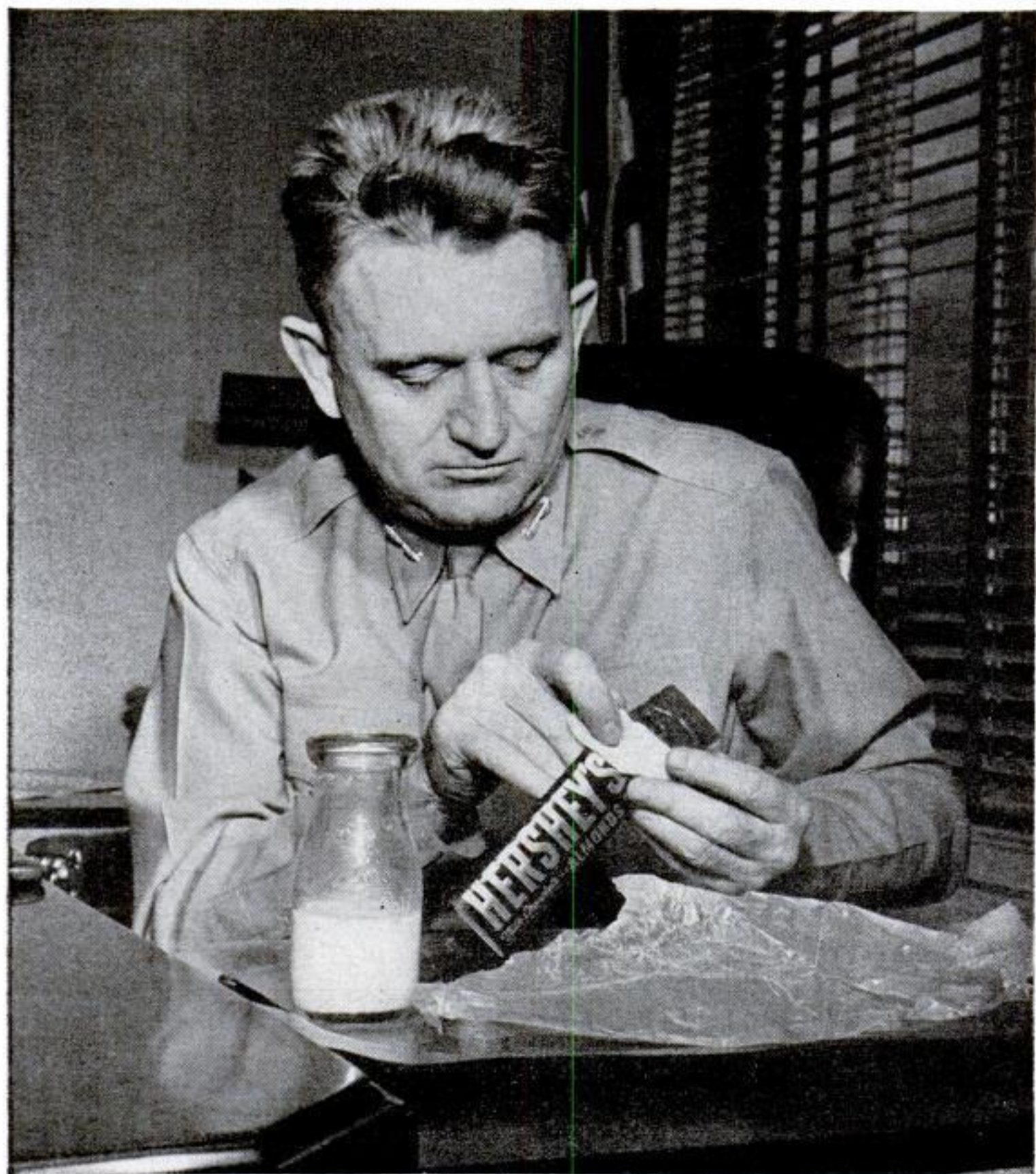
duction Board, with whom Forrestal has to thrash out many a procurement problem, Lieutenant General Thomas Holcomb (*opposite Nelson*), Commandant of the Marine Corps, and Vice Admiral Frederick J. Horne, Vice Chief of Naval Operations and one of Admiral King's most important assistants. As an operations officer, he is concerned with the employment of fighting ships which Forrestal has had constructed. He is of special value to the Navy now because in the last war he was naval attaché in Tokyo. He qualified as an aviation observer in 1926.



WAR MANPOWER COMMISSION Chief Paul McNutt reads and eats a bowl of soup in his office. Behind him are flags (*l. to r.*) of the American Legion, the Philippine Commonwealth, U. S., High Commissioner of the Philippines and State of Indiana. It is McNutt's responsibility to mobilize the nation's manpower. He works with General Hershey (*below*) on industrial deferment from the military draft. This month he has also asked Congress to pass a bill which would give him power, through the President, to draft labor for war industries.



DEPUTY ADMINISTRATOR OF WAR SHIPPING Lewis W. Douglas (*left*) eats at the Willard Hotel as guest of Emilio Collado (*right*), executive secretary of the Board of Economic Operations of the State Department. As assistant to Land (*opposite*), Douglas confers with Collado on problems of ship movements to South America and other neutral waters. Douglas is also concerned with ship pooling, international shipping coordination, and with getting supplies to the men and nations all over the world who are fighting the Axis.



DIRECTOR OF SELECTIVE SERVICE Brigadier General Lewis B. Hershey drinks a glass of milk and eats a Hershey bar. He is no relation to the Hershey-bar people. The administration of the draft—the fact of war that personally affects more people than any other fact—is his responsibility. Right now his biggest problem is how to solve the Army's manpower problem without drafting 18- to 19-year-old boys (which is still illegal) or without drafting 3-A men (which would break up families). Ultimately he knows both steps must be taken.

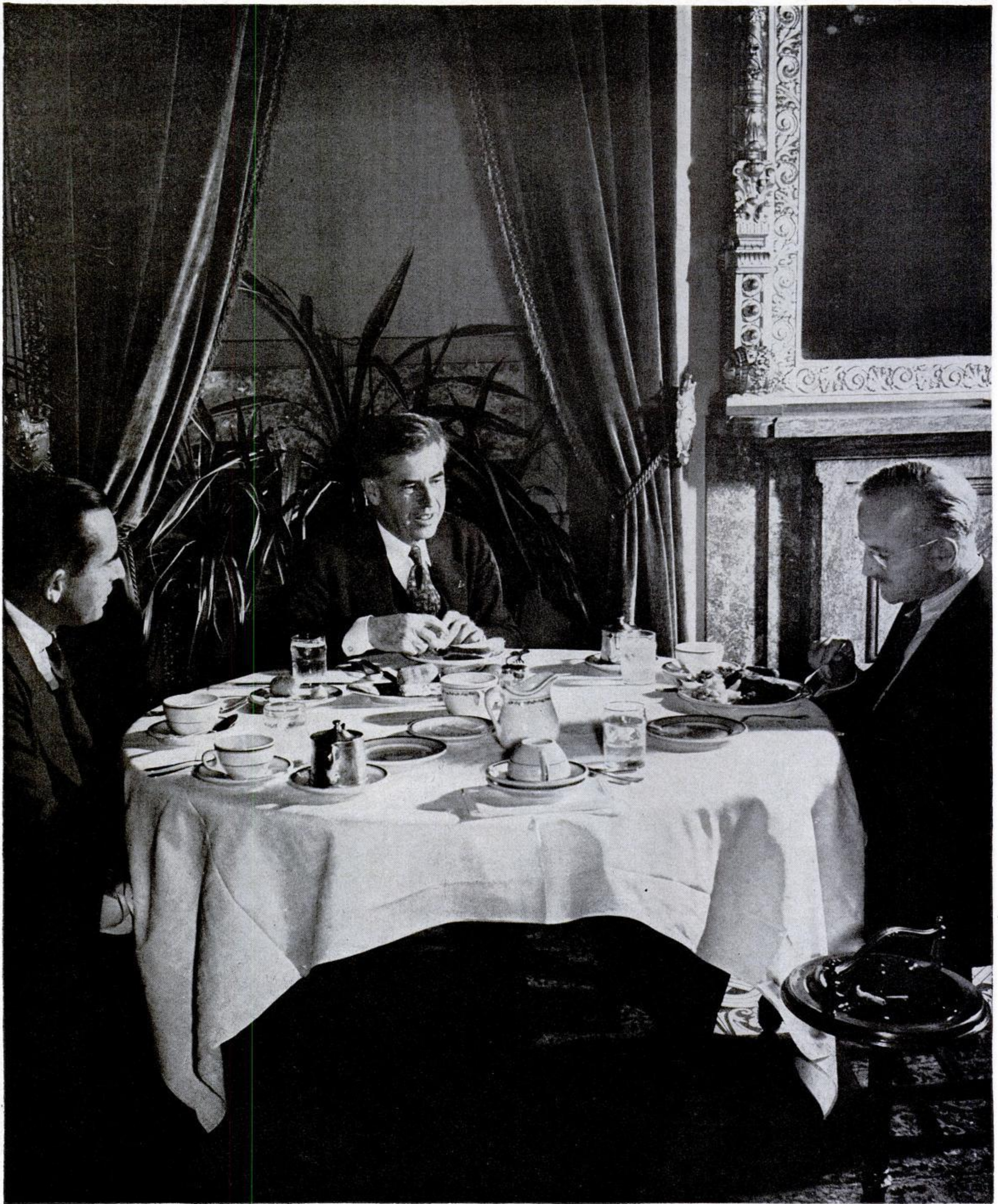


RUBBER ADMINISTRATOR William M. Jeffers, who is also president of Union Pacific Railroad, eats a hearty meal at his desk. Newest of the newcomers among Washington big shots, he has inherited one of the war's hottest jobs—making sense out of the tangled rubber situation. Soon he will be called upon to order nationwide gas rationing. Most important, he must organize and expand the synthetic-rubber program to increase the butadiene output 100,000 tons in six months and the annual output of buna-S from 705,000 to 845,000 tons.



WAR SHIPPING ADMINISTRATOR Rear Admiral Emory S. ("Jerry") Land reaches for a bottle of cream at the cafeteria in the Commerce Building. Even with standing in line, he figures a cafeteria is quicker than eating anywhere else. For him, saving time is a matter of supreme importance. He has the terrible dual responsibility, as head of the Maritime Commission, of producing 8,000,000 tons of ships this year and 15,000,000 tons next, and as chief of the War Shipping Administration, of controlling the operation, purchase and use of all

merchant ships flying the American flag. In this last capacity, he has supervision over a vast shipping pool which must supply U. S. troops all over the world. He is therefore the greatest shipper the world has ever seen. But his job involves more than ships alone. It includes half a million workers, some 4,000,000 tons of steel annually, buildings, engines, machine tools. Last week he found time to smile when Kaiser's Oregon Shipbuilding Company announced it had launched a 10,500-ton ship only ten days after keel-laying. Land liked seeing such records set.



VICE PRESIDENT Henry A. Wallace entertains Milo Perkins (*left*) and Lauchlin Currie (*right*) in his Capitol office. Unlike Victor Moore's famous musical-comedy vice president, Throttlebottom, Wallace is one of Washington's hardest-working leaders. In addition to his duties as Vice President (he has voted on tie Senate votes more often than any other Vice President in history) he is chairman of the Board of Economic Warfare, which is concerned with securing raw materials from neutral countries and with trying to damage the enemy's

economy. He is also boss of the freezing-out of the Axis from foreign markets; and of deciding what economic help should be sent to friendly nations. At head of his staff Wallace has placed Milo Perkins, his devoted friend and long-time associate in the Department of Agriculture. Perkins achieved fame back in 1939 as originator of the food-stamp plan for giving surplus food to poor families. Lauchlin Currie, an expert economist and one of Roosevelt's administrative assistants, shuttles between Washington and Chungking as the President's special liaison man.



ASSISTANT SECRETARY OF WAR FOR AIR Robert A. Lovett (*right*) lunches with WPB's Harold Talbott under an old portrait of Washington in dining room of Mayflower Hotel. The responsibility of both these friends is airplanes. Under Lovett, the Army Air Forces has been reorganized and expanded to take a more and more important place in U. S. military strategy. Like F. Trubee Davison, head of personnel section of the Air Forces, and Artemus L. Gates, Assistant Secretary of the Navy for Air, Lovett was a member of the

Yale Flying Unit in World War I, came back from overseas a Navy lieutenant commander. Ever since then he has believed in the efficacy of airplanes, especially big bombers, and the present U. S. bomber program is at least partly a reflection of his ideas. His tremendous job is now the organization and fighting of a huge air force, the biggest the world has ever seen. To execute it, he confers frequently with Harold Talbott, another Yale man and wealthy executive, who is procurement director of WPB's aircraft branch headed by Merrill W. Meigs.



"We met
on a picnic..
..remember?"

"You were on the cover of a yellow shoe-box of sandwiches. And I was the kid who stubbed his toe and fell in the creek.

... Since that day, thanks to you, I've always kept my feet on the ground—in comfort.

... Through college, France in '17, business, Walk-Overs have always taken the work out of my walking. And now, tomorrow, it's back into the army again.

... I'm sure glad you're going with me, big boy. It's a long hike to Berlin. Only shoes with guts will make it."



WALK-OVER

68 YEARS OF QUALITY

Most styles \$8.95 and \$10.95. JODHPUR, illustrated. Geo. E. Keith Company, Brockton, Mass.

ARMIES THAT WIN

War is now deciding the future of America. That decision will come, as always, on the battlefield and nowhere else. Everything but the military blows that hit the enemy at a vital spot is secondary, if not irrelevant. The happiness of the home folks, the profits of business, the hours and conditions of workers, the postwar plans are beneath consideration in the final victory or defeat. Half measures and hot talk do not win wars and lost wars mean oblivion to the children of the defeated.

To a people like the Americans, who have been devoting their energy to other things, the art of war seems strange and mysterious. War is as old as human life but it has developed erratically, in bursts of violent efficiency. The decisive weapons have changed as the times changed, making it difficult to see the connection between the longbow of medieval England and the airplane of today. Yet in all times war follows certain principles, neither very mysterious nor very complicated. On the American battlefield of tomorrow, those principles will pay off just as they have paid off for the last 3,000 years.

It will be seen that three basic kinds of war constantly struggle with one another from age to age. First is the solid body of infantry, highly equipped both to defend itself and to push the enemy off his ground. Second is the cavalry, less able to defend itself but equipped to travel far and fast and hit the enemy with a great shock when and where he least expects it. Third is the artillery, which stands out of reach of the enemy and throws destructive weapons into his midst. The infantry tends to dominate in the highest periods of civilization, usually in conjunction with artillery. The cavalry sweeps the world when civilization is at a low ebb. In this war, tanks and planes have already been used as both cavalry and artillery, to prepare the way for the kill by the infantry.

The victorious general is the one who chooses the correct weapons and tactics for his age and his problems. He may have learned the art of war, but what really counts is his ability to think straight and act decisively in the heat and confusion and doubt of battle. He must know that war is human. Soldiers must be trained to stand together and fight. They must try to hit all together. They must have room to fight, but they must not disperse too thinly. They must have and use the best weapons. Above all, they must feel themselves a great army or regiment or squad to win.

The story told here is all of land warfare. Even the U. S. Naval War College tells its students that wars are finally won only by controlling the territory of the enemy, "for land is the natural habitat of man."

The warfare of earliest times, as practiced by Egyp-

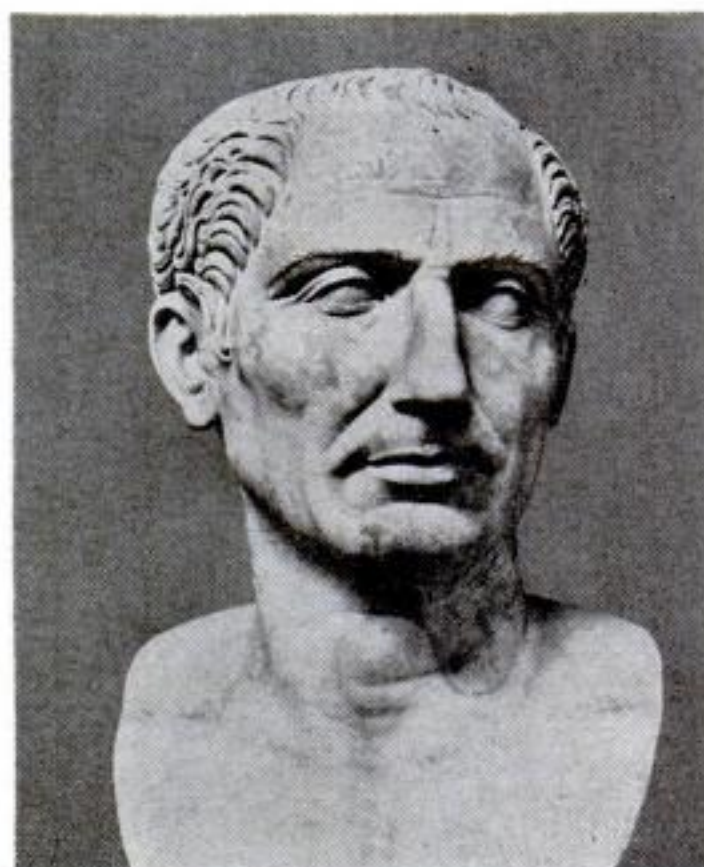
tians, Assyrians and Persians, was merely a disorganized, moblike assault. The opposing forces ran at each other and joined in a pushing, yelling melee, each trying to drive the other from the field. The first organized warfare began on the other side of the world, in China, where by 500 B.C. Sun Tzu had written down the rules by which the Chinese conquered. His lessons on discipline, deception, maneuver, terrain are good today.

Alexander's Phalanx

In the West the first rational fighting outfit was demonstrated by Alexander. Like all later Great Captains, Alexander made two great discoveries: 1) to concentrate all his force at one point, and 2) to attack the enemy at his weakest point, preferably the flank. He and his father had organized the Macedonians of 330 B.C. into a basic unit of heavily armed infantry, 16 men across and 16 deep, relying chiefly on the 21-ft. pike. Sixteen of these made a solid phalanx of 4,096 men. Such a phalanx was "heavy infantry" because its men were equipped to hold their ground in hand-to-hand fighting, to go in and chew up the enemy. To his phalanx army Alexander attached heavy shock cavalry and light raiding cavalry, as well as archers and slingers functioning as artillery. He used every available weapon: bow, javelin, pike, sword, shield, catapult and ballista, but he relied primarily on infantrymen wielding pikes and swords to win his victories for him.

The way Alexander fought 1,000,000 Persians with 47,000 men at Arbela is a striking example of how battles are won. Man for man, the Macedonians went into battle with a higher firepower and shock power than their opponents. Then Alexander concentrated them all against only the left wing of the Persians. For a few hours his army rushed back and forth in some trouble but it was throwing concentrated blows while three-quarters of a million Persians stood and watched uncomfortably and finally broke and ran. Thus it is obvious enough that the battle was not decided by the majority of men standing around on the battlefield. It was decided by Alexander's expenditure of superior killing power at any one place at one time.

One hundred years later, the two great Mediterranean armies of Rome and Carthage had not advanced much beyond Alexander. All the same weapons were in use, but the Romans had carried mechanization to great lengths. And they relied more on the short, straight, two-edged Spanish sword than on the javelin. Hannibal's Carthaginians expected a lot from



CAESAR, master of discipline and mobility, captained crack infantry and artillery.



GENGHIS KHAN, greatest conqueror who ever lived, used cavalry with deception.



GUSTAVUS ADOLPHUS opened great period of Swedish conquests to the Dnieper.

A Short History of the art of warfare shows the evolution of weapons and the principles that have always brought victory

by DAVID CORT

their elephant cavalry charge. But it may surprise freemen to learn that the mercenaries of Hannibal's crack infantry were fully a match for the Roman freemen. The decisive battle of Zama (202 B.C.) was merely one in which, after the Roman cavalry had swept the Carthaginian cavalry off the field, the two superb infantries fought it out toe to toe. Rome won.

The Roman legion, the equivalent of a modern division, which then dominated the known world, averaged 3,600 to 6,000 men. The prime unit was the 120-man manipule, ten deep and twelve across, separated by an open space 60 ft. wide from its neighbors. Three maniples made a cohort and ten cohorts made a legion. The open spaces between the maniples gave the wide-spaced Romans more room to maneuver than the Greeks and Carthaginians with their nearly solid phalanx, but this flexible order called for cool and automatic discipline and first-class officers.

The Romans used more body armor than the Greeks: helmet, leather-reinforced shield, breastplate and greaves on the right or forward leg, as they struck out under and to the right of the shield, advancing with a shuffling motion. When horse archers attacked the legion, the Romans simply raised their shields and formed a ceiling against the arrows.

The fighting capacities of the heavy infantry legion were clearly demonstrated in one of its rare defeats—at the Teutoburger Wald in Germany (9 A.D.). Despite bad generalship, an extended order in the forest and a rain that ruined their bows and weighted their shields, the Romans survived several days before annihilation. The German tribesmen were merely a light infantry, used to fighting in the forest, like the Indians who demolished Braddock in Virginia 1,750 years later or the Japs who demolished the British in Malaya this year. They used guerrilla warfare, always good against heavy infantry. Despite occasional defeats, the Roman legion held sway for another 400 years until at last it crumbled before the onslaughts of light cavalry.

900 Years of Cavalry

The fall of Rome and the great resurrection of cavalry can be explained militarily in several ways. One is that Rome's heavy infantry required an expensive and extended system of supply bases, which were a sucker for cavalry raids. Another is that the Roman legion lost its fighting fiber in the enlightened pacifism of the rich and fortunate citizens of Rome. At any rate, the known world of that time suddenly became too large to be coordinated as it was by Rome.

The light cavalry that slowly disintegrated Rome first appeared among the Balkan Goths, who used on

defense the trick of a circle of wagons, as did the Hussite horde of Bohemia 1,000 years later. The virtue of light cavalry was that it hit and ran, hit and ran again, specializing in missiles thrown from a distance. It used arrows, spears, axes, darts, to wear down and demoralize the Roman infantry. It used ambushes and surprises. This light cavalry had several shortcomings. It could not assail a fortified position and it could not hold ground for long. It was still defeated on occasion by infantry with cavalry, as by Aetius at Chalons in 451 A.D. and Charles Martel at Tours in 732 A.D.

Out of the vast miasma of light cavalry that overwhelmed the civilized world in the early Middle Ages there finally emerged the small, highly trained, heavily armored cavalry of the feudal knights after Charlemagne. By this time small nuclei of a new social organization had appeared in the fortified stone castles of the West. These served as bases for the heavy cavalry. The invention of the stirrup in 550 A.D. enabled a horseman to rise in the saddle and strike a solid blow with mace or sword. Thus for the first time a horseman could stand his ground against a heavily armored man on foot. The horses had to be armored. The men were too, and the total weight a war horse carried could come to 500 lb. The overloaded horses could not go far or fast. The knights had no real power of maneuver and they had to fight close to their bases, such as castles or cities. But the knights had terrific shock power and high defensive power. For that reason, they may be called "heavy cavalry."

The knights had the complex code of chivalry, answerable to God and their liege lord, to sustain their morale. They fought for pleasure and form, not really to destroy their enemy, who might be their ally another year. The secret of victory at this time was a combination of the horse (for movement), armor (for protection), archers (for artillery) and plain fighting stamina.

Cavalry reached its grand climax when the Yakka Mongols rode on the world stage behind the nine yak-tails of green-eyed, auburn-haired Genghis Khan. Always called a "horde," this army rarely numbered more than 200,000 men, for the Yakka Mongols were a minute people of a million and a half souls from the northern Gobi Desert. Genghis Khan gave cavalry to a superb degree discipline and mobility.

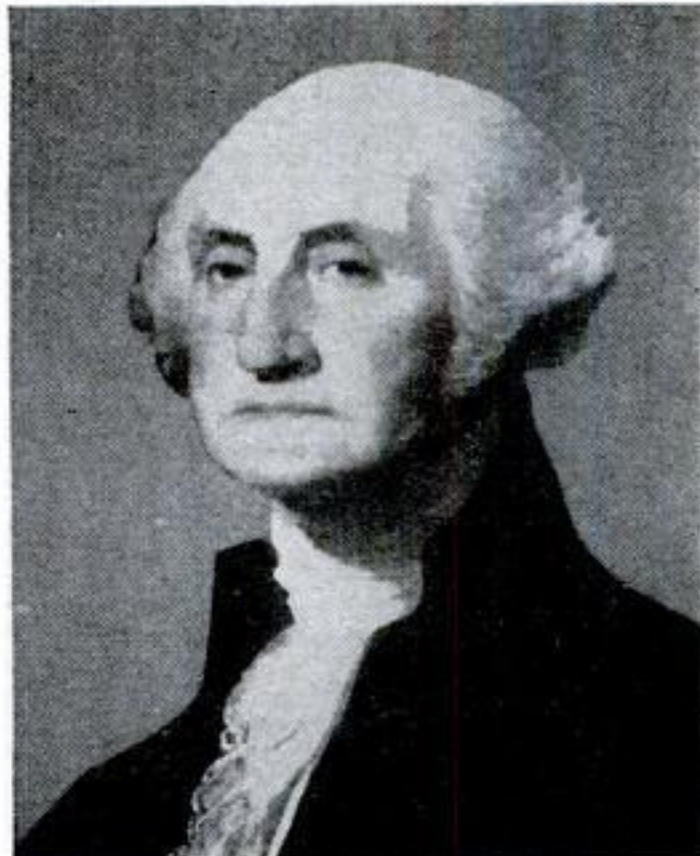
The Mongol units were organized in strict divisions of 10,000 men, subdivided into thousands, hundreds and tens. They armored their horses in lacquered leather

ARTICLE CONTINUED ON PAGE 108

FLOW-CHART OF WEAPONS ON NEXT PAGE



FREDERICK THE GREAT drilled his infantry to outmaneuver the rest of Europe.



WASHINGTON had unshakable character and drilled irregulars into a disciplined army.



NAPOLÉON knew how to hit and how to mass his crude artillery where it hurt most.

LUNCH?



FRANKS!



FRENCH'S!



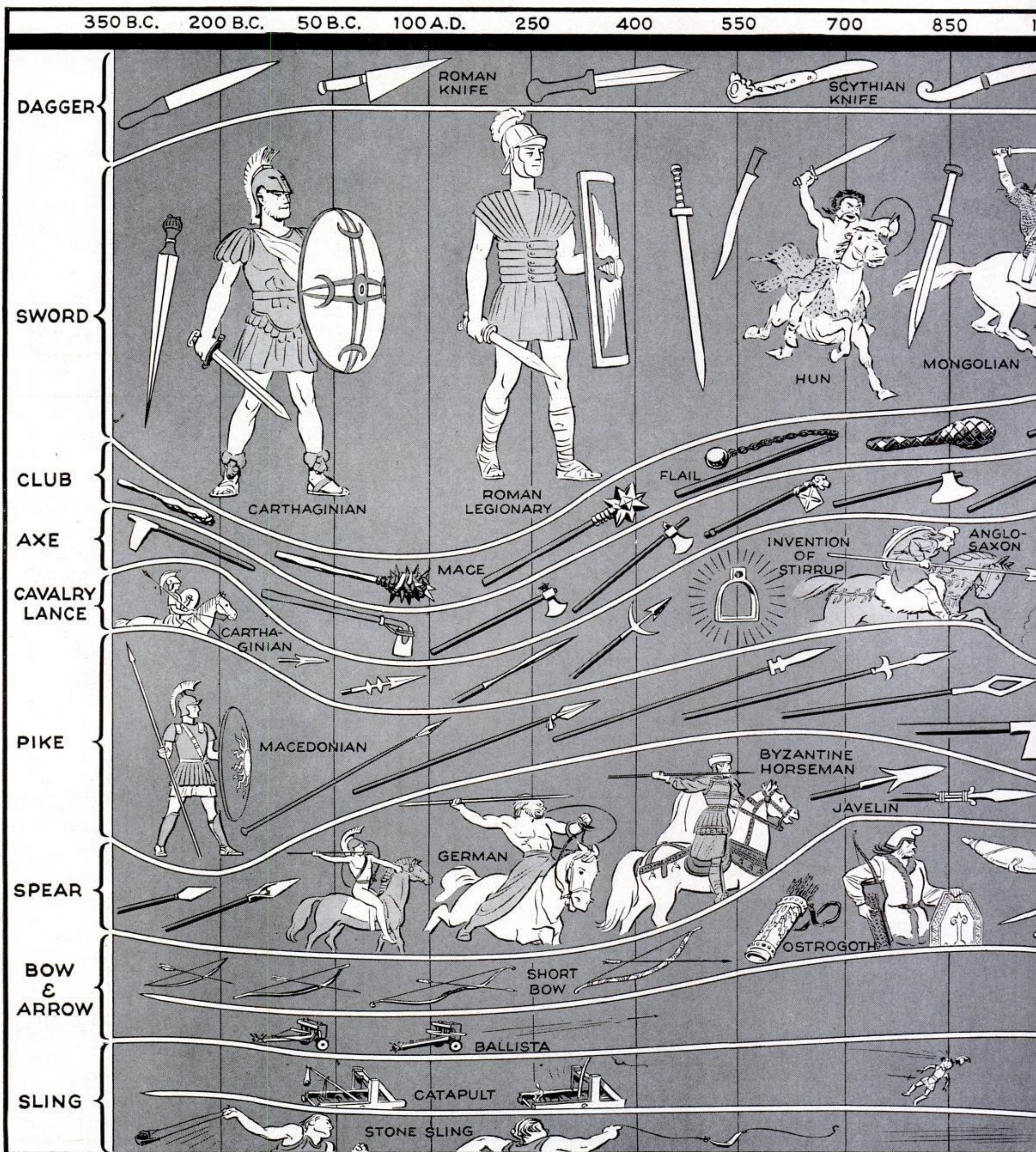
Watch appetites perk up when you serve smooth, creamy French's Mustard. It turns "just frankfurters" into a taste-tempting dish men love!

MEN GO FOR THIS FINER MUSTARD WITH THE TANGY DIFFERENT FLAVOR



LARGEST SELLING PREPARED MUSTARD IN U. S. A. TODAY!

THE EVOLUTION OF WEAPONS

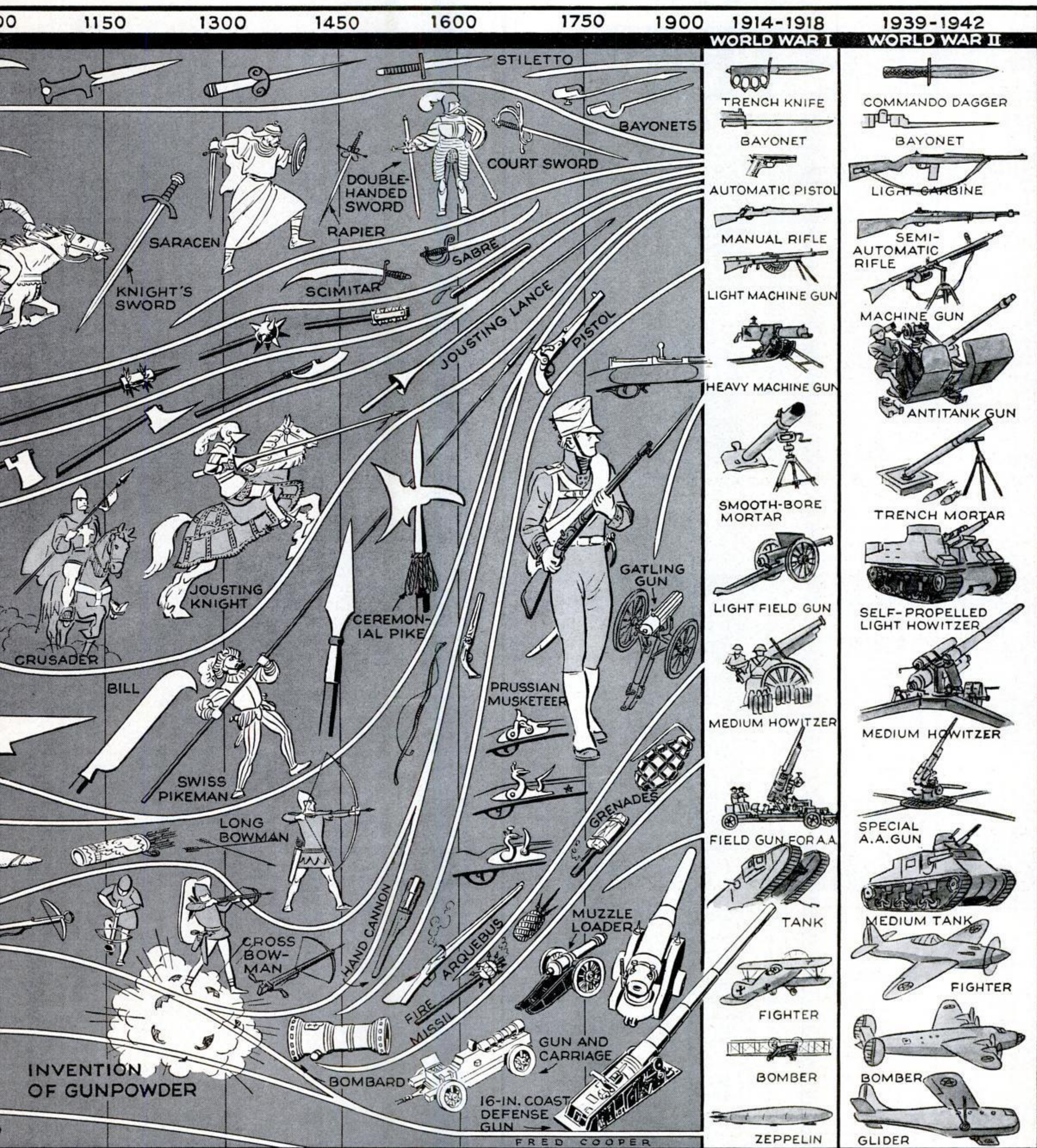


THE TOOLS OF WAR, with which men have killed from earliest times, are shown above in a flow-chart of evolution. Each weapon's importance at a particular period is indicated by the width of the space devoted to it. The most important single fact apparent is that warfare started with an overwhelming weight of shock weapons (sword, club, spear) and very few missile weapons (javelin, bow, sling). Beginning with the discovery of gunpowder in 1248 A. D., missile weapons rap-

idly took over the battlefield. Today the only shock (hand-to-hand) weapons are the bayonet, clubbed rifle, trench knife, commando blackjack and dagger and, occasionally, the tank. All the rest are missile weapons, including the plane and tank.

The figures on the chart are intended to show what was the dominant soldier in any given era, whether it was an infantryman with a sword, a half-naked horseman with a javelin, an armored

FROM 350 B.C. TO PRESENT



knight, a Swiss footman with a 21-ft. pike, or a Prussian musketeer. It will be seen that infantry dominates at the beginning and end and that cavalry has its day from 400 A. D. to 1300. Nearly all the ancient weapons remained in use until about 1700 when the chart shows them dying in dead ends of evolution, like the bow, pike and throwing spear.

The early fighters shown above may have looked more heroic in battle than the modern sol-

diers, but their weapons were pitifully inefficient at killing compared with those in the last two columns, from 1914 to 1942. But it should not be forgotten that the Mongol warriors of Genghis Khan 700 years ago might conceivably play hob even today in the forests of eastern Germany or Manchukuo.

How the armies used these weapons to win victory is explained in article beginning on p. 104.

DON'T BRUSH FALSE TEETH WITH MAKESHIFT CLEANERS

DON'T DO THIS



TOOTHPASTES, TOOTH POWDERS and household cleansers are not intended for dental plates. Dental plate materials are softer and more easily worn down than natural teeth. Many makeshift cleaners are *abrasive*,

wear down the important "fitting ridges," may ruin costly dentures.

In addition, continued use of these makeshift cleaners scratches dental plates, actually causing film and stains to collect faster, cling tighter.

DO THIS!



**NO BRUSHING...
NO SCOURING...**

Do this daily: put one capful of POLIDENT in $\frac{1}{2}$ glass of luke warm water. Stir briskly. Place plate or bridge in this solution for 15 minutes, or over night if convenient. Rinse well—and it's ready to use!



Plate Wearers Often Worst Breath Offenders

The dark film that collects on plates, bridges, soaks up odors and impurities like a sponge. Almost always it results in "Denture Breath"—probably the most offensive breath odor. You won't know if you have it—but others will! Yet POLIDENT quickly dissolves film—leaves plates odor-free and sweet. Millions call Polident a blessing.

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Soaking plates and bridges in Polident dissolves ugly stains and cloudy film, cleans those hard-to-reach corners and crevices without the dangers of brushing; maintains their original natural appearance. Recommended by many leading dentists and approved by leading makers of modern denture materials.

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ALL DRUG STORES**

Long-lasting 3 oz. size—30¢; 7 oz.—60¢, at all drug stores. Your money back if not delighted. Today get Polident.



POLIDENT

The Safe Modern Way to Clean Plates and Bridges



FIRST ORGANIZED WARFARE in the West is demonstrated by early Greeks presenting steady array of pikes and shields against the mob rush of the Persian horde.

ARMIES THAT WIN (continued)

and iron metal helmets and leather armor. They carried slightly curved sabers, two bows, two quivers covered against rain, a lance, a long-handled ax and a lariat with a hook on the end. They could live for months on a very small ration of smoked meat and milk curds. In dire need, they opened their horse's vein, drank a little blood and closed the vein. They frequently moved 80 miles a day, 1,000 miles a month. They maneuvered in battle in silence to signals given by movements of the standards, or the arm of an officer, or at night by colored lanterns. They used every sort of trickery and surprise, but they preferred the turning or flanking movement.

Genghis Khan's grandson invaded Europe in 1238 with something under 150,000 of these terrible horsemen. They demolished Kiev and southern Russia, defeated the Poles, exterminated 30,000 Teutonic Knights and Bavarians, laid waste Silesia and Moravia, wiped out several small armies, destroyed a Hungarian army of 100,000, stormed Pest, ravished Austria and Dalmatia and then went home.

Genghis Khan stirred up Asia, wrecked the fighting power of Islam, ended the Crusades and a lot of useless argument. The great secrets of the Mongols were mobility and utter military discipline, to which everything else was subordinate.

The Age of Firepower

Not long after this bad news the knights took a second body blow from the English longbowmen. The crossbow had fired a heavy arrow with fair accuracy, but the 6-ft. bow of yew, drawn back to the ear, could send an arrow 1,000 ft. and through a suit of armor. With it, the English archers decimated the French knights at Crécy in 1346, demonstrating conclusively that the age of firepower had begun.

The archers alone, however, could not withstand the charge of cavalry. But out of them evolved once again the unbeatable heavy infantry. It happened in widely separated places, first among the Swiss of the forest cantons, then among the Ottoman Turks of Mohammed II who conquered all Southeast Europe and the Near East.

The Swiss phalanx was merely a close-set forest of pikes, which marched rapidly and lightly in three-deep parallel columns that could close up to become one solid mass. The pikes spitted charging horsemen who had got through the fire of the Swiss crossbowmen.

It would be interesting to speculate what would have happened, had the Swiss phalanx alone met the English bowmen alone. But the whole quarrel was settled by the arrival of a really decisive weapon: *gunpowder*.

Gunpowder

It took gunpowder 270 years to play any great part in the winning of a field battle. The explosive quality of pure niter was discovered in 1248 by Roger Bacon. A hundred years later it was used here and there in siege cannon to batter at walls. About the time Columbus was discovering America, cannon and handguns were just becoming effective in open battle. But the low-quality powder blowing through the smooth barrel might throw the wobbling round ball of stone or iron far or near, to right or left. The ball moved slowly

CONTINUED ON PAGE 110

ON THE WAY, MEN!

Not Too Little—not too late—but all
you need—when and where you need
it! That's what America's Trucks—and
the skilled Organizations behind them
—are working for, today!



WE knew some of those boys on Bataan. Some of them worked on our Trucks—drivers, dispatchers, grease-monkeys. Good men at their jobs.

Swell lads—Americans all—with lots of guts—all of a sudden in a foxhole in Bataan. Asking for medical supplies. Asking for guns. Planes. Ammunition. *Anything* to help beat back the Japs.

NO MORE BATAANS

But now—no more Bataans! Not if America's Trucking Industry can help it!

We spent 25 years perfecting the world's greatest Motor Freight Transport systems. Like a conveyor-belt from war plant to war plant! War goods don't wait around while Trucks are on the job!

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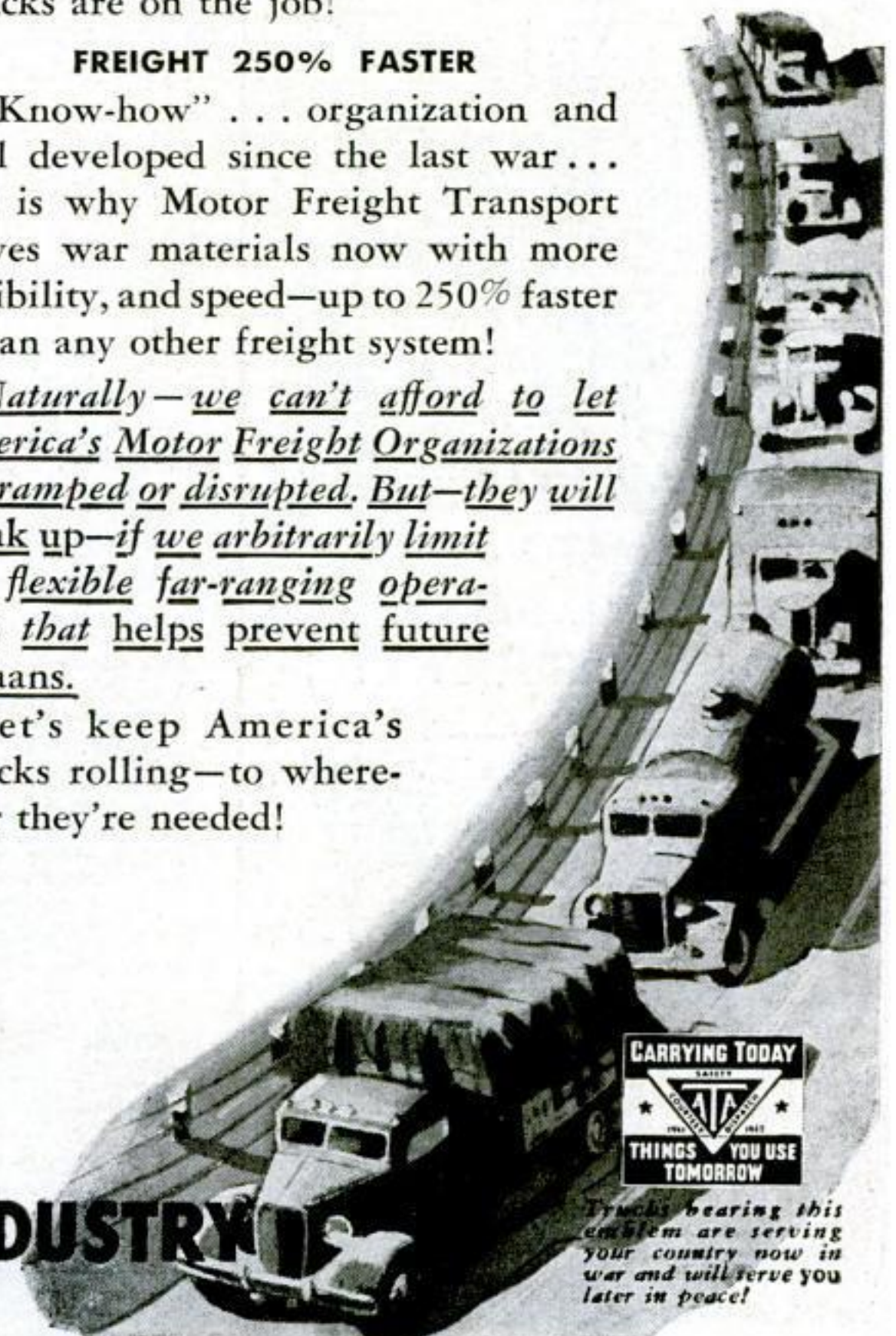
"Know-how" . . . organization and skill developed since the last war . . . this is why Motor Freight Transport moves war materials now with more flexibility, and speed—up to 250% faster—than any other freight system!

Naturally—we can't afford to let America's Motor Freight Organizations be cramped or disrupted. But—they will break up—if we arbitrarily limit the flexible far-ranging operation that helps prevent future Bataans.

Let's keep America's Trucks rolling—to wherever they're needed!

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IT'S A WOW!
THIS TOMATO JUICE
COCKTAIL STARTS
A MEAL OFF **RIGHT!**

**Try a WOW—made
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WORCESTERSHIRE SAUCE**

Wow your friends with this delicious new tomato juice drink. Just add to each glassful of plain tomato juice a few grains salt and pepper, a tsp. French's Worcestershire Sauce. Mix and serve cold. Be sure you use French's, for this famous sauce gives a fine, tangy zesty flavor that can't be duplicated. Try it and see!

**Top-Notch Quality
at half the price**



ARMIES THAT WIN (continued)

enough for the enemy to see it coming and dodge out of the way. Loading was painfully slow, while the enemy might charge the guns. It was not until the battle of Marignano in 1515 that Francis I of France was able to make the Swiss hold still, by cavalry charges, long enough for his primitive artillery to plow them full of holes. Then and for long afterward, artillery was owned and manned only by civilians, who rented their guns to a general.

In 1560, the first workable musket was put into use. It was loaded from the muzzle. First powder was poured down, then a ball was rammed in. Then the musketeer filled the touch-hole with powder and blew on his lighted taper to get it glowing. Then the musket was propped on a forked stick. The musketeer aimed and pulled the trigger which tripped the match to the touch-hole, detonating the powder and firing the ball. This was accurate at no more than 100 ft. It was not good enough to abolish the longbow for some years. And it took much too long between volleys.

The first general really to exploit gunpowder was Gustavus Adolphus of Sweden in the early 1600's. He created a national long-enlistment army under strict discipline and with high mobility. He formed his 1,200-man regiments of musketeers and pikemen, three to two, thus separating the musket from the bayonet, the one for long-range work, the other hand-to-hand. He removed the forked stick to hold up the musket. In battle his heavy infantry stood in six or three ranks, the front ranks kneeling while those behind fired over their heads. By firing in series, they could keep up a fairly steady fire, despite the delay in reloading. Inevitably, the pike was stuck on the musket, which in turn was ignited by the reliable spark of a flint instead of by an unreliable match, and so we had the flintlock with bayonet and the fusilier of Marlborough and Eugene of Savoy.

Frederick the Great by 1750 had made his army more of an army, though he did not change its weapons much. He trained it to move even faster than Gustavus Adolphus', so that he could use it all at one time against a part of his enemy. For the all-conquering rule of war is that a fight is a fight only to the degree of the number of people who are fighting at one moment. One man may fight ten, if they will oblige him by coming up in succession.

How to get an army to fight victoriously is much less a matter of fancy tactics, than it is of giving the individual soldier the odd and unnatural desire to kill as many men as possible in a contrasting uniform, absolutely without any consideration of being killed himself. This is called morale, which is created only when a commander has impressed his troops with the fact that he is a man. Frederick the Great somehow did so and they went in to slaughter for him, because he knew his Prussians. The English officers of the same time, quite different from the Prussians, also impressed their men with their own great personal courage. The English system was to exploit people's desire to obey somebody.

Revolution

But a new kind of morale presently arose. It was based on people's desire to obey as little as possible, and naturally Frederick the Great and the English officers could not have predicted that it would be effective. Yet it turned into a tornado of power. George Washington, who really started this revolutionary wave and heartily disapproved of it, was actually obliged to give much of his attention to discipline since his men were as unruly as anyone could ask.

CONTINUED ON PAGE 113



CIVIL WAR made use of huge mortars whose job was to lob-shot short distances from the safety of fortifications. They were not much better than the mortars of 1450.

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RELIEVED
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Dr. Hand's Teething Lotion is the prescription of a famous baby specialist and has been used by mothers for over fifty years. One bottle is usually enough for one baby for the entire teething period.

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A product of the Maico Company which provides 70% of America's precision hearing test equipment. Choice of ear physicians, hospitals, universities, clinics, airlines, U. S. Army and Navy. FREE! Send name of relative, friend or your own name for a new experience in hearing. No obligation. Address Maico Co., Inc., Dept. 30-L, 2632 Nicollet Avenue, Minneapolis.

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TRY GLENMORE AND YOU'LL KNOW WHY!

**SMOOTHER,
LIGHTER**

Here's the Bourbon that
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A wise buy for highballs
or otherwise!

**RARE
FLAVOR**

A case of love
at first sip!

**A GREAT
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Kentucky's Finest and
has been for 70 years!

GLENMORE SILVER LABEL
Glenmore is also available in 90 proof.
Ask for **SILVER LABEL**.

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What kind of "figure" has your foot?

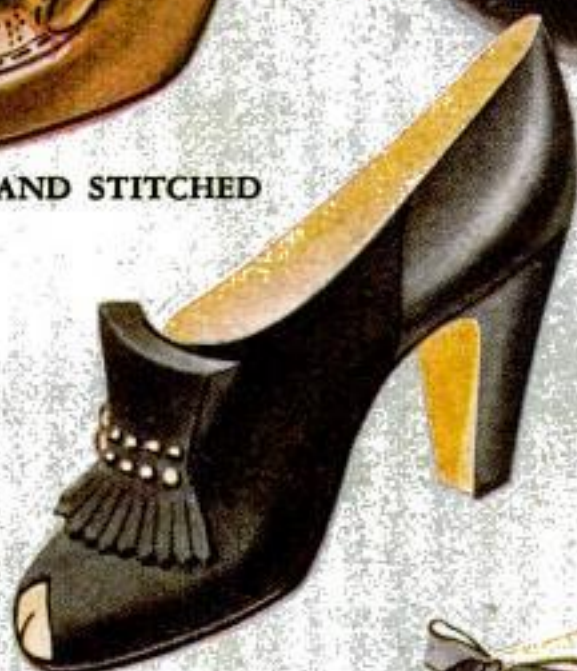
Do feet have "figures?" Of course they do. And the "figure" of your foot is just as *individual* as the figure under your new fall suit. That's why, to fit your feet properly, you need a shoe proportioned to your individual foot, a shoe made over a last that conforms to your individual foot's figure.



The PARFAIT



The HAND STITCHED

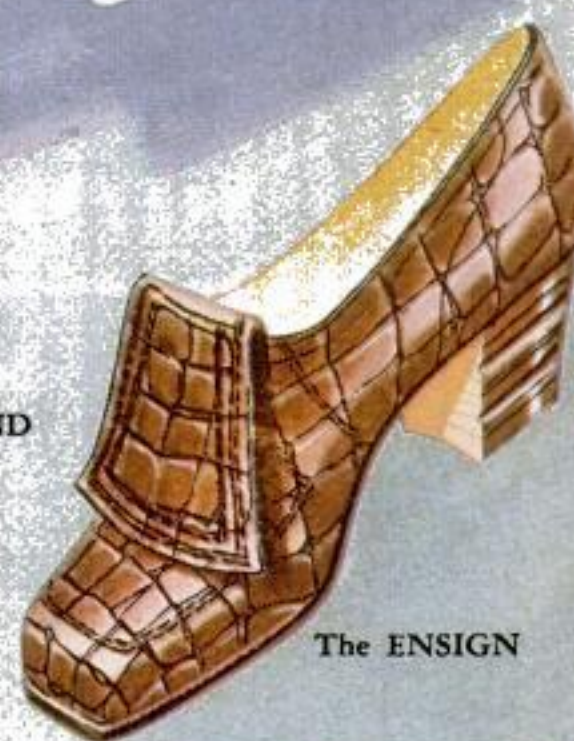


The MONTEREY

The MELBA TIE



The VAGABOND



The ENSIGN

America's unchallenged shoe value

\$6⁹⁵
... Denver West,
most styles \$7.45

Visit your local store. Discover the youthful step that perfect fit can bring... during

Red Cross Shoe DEMONSTRATION WEEK

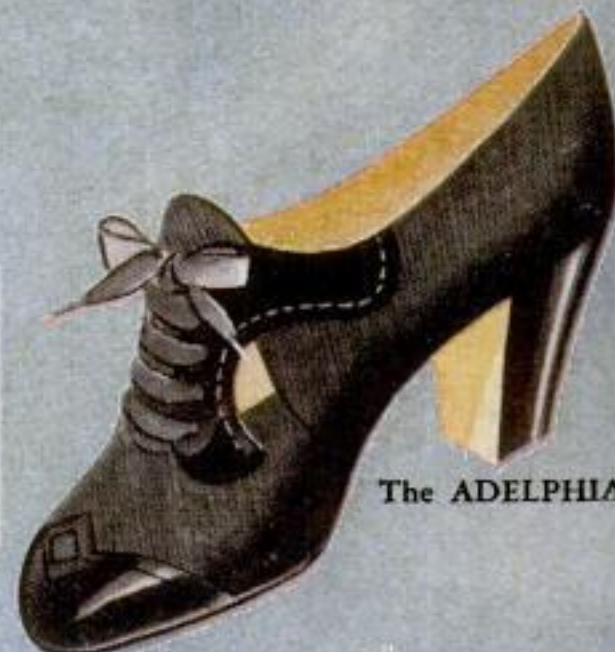
OCTOBER 5th to 10th

You're walking more... leading a more active life. That's why you'll hurry to your local store during Red Cross Shoe Demonstration Week—let an expert fitter show you beautiful, young Red Cross Shoes for every occasion, made over the last that's best for *your* individual foot. And remember, in Red Cross Shoes you have the *largest selection of lasts in the world to choose from*—the famous "Limit" Lasts, all designed to act as a beauty treatment for your feet. The United States Shoe Corporation, Cincinnati, Ohio.



The mark of honor on fine shoes for over 50 years.

FAMOUS RED CROSS SHOES ARE MANUFACTURED IN ENGLAND AND AUSTRALIA UNDER THE NAME GOLD CROSS SHOES



The ADELPHIA

ARMIES THAT WIN (continued)

Washington, however, had something pretty good. His army was able to outshoot the British because 46 years before, German gunsmiths in Pennsylvania had produced a true rifle, for the frontiersman. This weapon had spiral grooves on the inside of its long barrel, so that the ball, fitting in tightly, conserved the explosive power and spun through the air, holding its direction instead of wobbling. With such a gun Washington's irregulars could pink a Redcoat at 200 yd. (The Continental regulars still used a smooth-bore French musket because it was the best the WPB of that day could have produced in sufficient quantities.)

Meanwhile, Napoleon was examining the subject of war. Actually, except for his own Guard, his troops were superlatively undisciplined. They had primarily the élan of self-respecting citizens who think for themselves; they were individually more intelligent and hence better soldiers than any of their opponents. Part of this indiscipline came from Napoleon's policy of making them live on the land so that he could sometimes free himself from his supply lines which had so obsessed all previous generals.

Napoleon ranks as the greatest of the Great Captains of modern times. Stonewall Jackson always carried three books: the Bible, a dictionary and Napoleon's *Maxims of War*. Napoleon is the archetype of the victorious general precisely because he performed his miracles with the weapons he had. Other men had evolved his weapons and his army. But Napoleon profoundly understood artillery, men and supply lines and the supreme advantage of rapid movement. He did not train his men in rifle marksmanship. Above all, Napoleon had a contempt for war. He knew that anybody could learn everything tactical there was to know about it by the age of 40 and therefore he used young generals against enemy generals who, as in the Prussian Army, averaged around 70. The old men were always fighting the last war; Napoleon's young men were trying to fight the war they were in.

Modern Arms

Artillery did not come of age until after the American Civil War. As early as 1376 men had fiddled with the idea of shells ("grenades" or "bombs"), exploding small shot sometime after expulsion from the gun by means of a wick fuse. They had had the idea of percussion fuses and multiple guns firing together or in series. A Lieutenant Shrapnel had in 1784 invented the shell-dispersing bullets. But in 1865, most American cannon still fired solid cast-iron balls or whipping chains or scattering charges of grapeshot or canisters of small bullets. Most were smooth-bore and nearly all were muzzle-loading.

The Civil War was also fought on both sides by muzzle-loading rifles. A practical breech-loading rifle was invented by an American named Hall in 1811 and was actually adopted by the U. S. Army from 1819 to 1844, when it was dropped for muzzle-loaders. Meanwhile a German had invented a breech-loading bolt-action rifle that fired by puncturing a primed cartridge. This was promptly adopted by Prussia in 1840 and won three wars for that country. The year after the Civil War, the U. S. Army adopted the breech-loading rifle with a metallic cartridge. The modern 5-shot magazine rifle, the German Mauser, began entering the world's armies in 1898 and reached the U. S. Army in 1903 with the Springfield.

Artillery had been floundering around for 500 years on elementary problems, perhaps because the guns on hand represented a big invest-

CONTINUED ON NEXT PAGE



WORLD WAR I ARTILLERY, here massed in France, was decisive and deadly product of a rush of scientific invention and improvement at end of the 19th Century.

Always Lovely

Let your ring, like your love, be for always! Choose happily an Art-Carved Ring, created by Wood, whose name has spelled leadership in fine ring-making for nearly a century! Each exquisite design has been wrought to a precious lasting beauty and each fine wedding and engagement ring represents value that is lasting too! At finer jewelers everywhere.

Art-Carved

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SEND FOR ILLUSTRATED FOLDER OF SMART, NEW RING DESIGNS

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Here's a Beauty Treatment That you EAT!



Tiny cuts, blemishes and skin faults won't heal properly when Vitamin "C" is lacking in your daily diet. Here's a delicious, inexpensive way to add plenty of "C" to meals. It's called Florida Aspic: You take 1 pkg. aspic, 1 cup boiling tomato juice, 1 cup Florida grapefruit juice (drained from canned sections) and 1 No. 2 can Florida grapefruit section, drained.

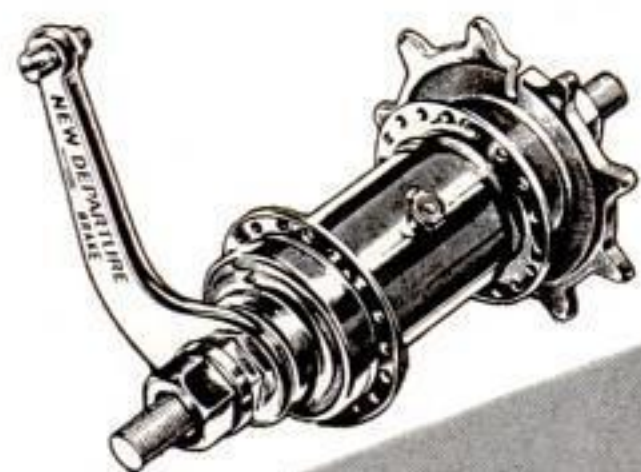
Thoroughly dissolve packaged aspic in boiling tomato juice; cool; add Florida grapefruit

juice; stir well. Pour into a ring mold (which has been rinsed in cold water). Chill until firm. Unmold and fill center with Florida canned grapefruit sections. Garnish with watercress or other salad greens. Serve with salad dressing. 6 servings, for less than five cents per serving!

Note: A cherry-flavored gelatine ring may be filled with Florida canned grapefruit sections and served as a sparkling dessert.

FLORIDA CITRUS COMMISSION, LAKE LAND, FLORIDA

CANNED FLORIDA GRAPEFRUIT SECTIONS



LUCKY enough to rate a bicycle?

be **WISE** enough to insist on a

dependable and long-lasting

New Departure
COASTER BRAKE

ARMIES THAT WIN (continued)

ment and experimentation was physically very perilous. For a long time, the problem was how to drag the guns around fast. Then it was whether to put them before, beside or behind the infantry. Then it was how to outrange the ordinary rifle. Then it was how to prevent it from bouncing back on the recoil, so that it need not be dragged up and re-aimed. Even when this was done by a recoil mechanism the gunners had to wait for the smoke to blow away. Smokeless powder solved this in 1887. When the gun no longer bounced back, forcing the gunners to jump clear each time, a protective shield could be added to the gun carriage. The explosive shell, invented in 1376 and made practical before the Battle of Waterloo, was not in general use until 1880. Thus, the breech-loading, quick-firing field gun, with rifled barrel and recoil mechanism, firing an explosive shell with a time fuse, came into general use at last around 1900.

War was now ready to go to town.

First exploding irresistibly in 1914 to test the arsenal scientific men had given it, it took five great steps.

First was artillery which in great concentrations smashed all enemy infantry by parabolic or lobbing fire over obstructions, aiming by trigonometry.

Second was deep trenches which concealed infantry during bombardment behind resilient earth, in the stalemate that began in 1914, after the first Battle of the Marne.

Its third was the rapid-fire machine gun, which enabled one man favorably placed behind barbed wire to mow down a company or a regiment of the most courageous men ever born.

Its fourth was the strengthening of gun barrels by the British out of a neglected German invention of chrome-nickel steel. This led to much more powerful charges, longer life of guns and the modern rise of steel alloys.

Its fifth was the tank which first appeared en masse at Cambrai Nov. 20, 1917, protected the charging men from the machine guns and could more or less dodge through the artillery fire. The development of the tank inevitably called for the production in enormous quantities of antitank guns with tremendous muzzle velocity and extreme mobility. These began to become general after the lessons of the Spanish Civil War in 1936.

Enter the Airplane

Meanwhile, in the sky overhead, the plane went through various useful phases between 1903 and 1942. First it was merely the ideal scout that spied out the doings of the enemy. Then it became a raiding scout that surprised and machine-gunned troops, that bombed cities, railways, munition depots for some future general benefit. Then it became an immediate combat artillery, that bombed enemy troop and tank concentrations and pillboxes, to help the actual assault. Always it retained its first use, that of the eyes of the army, making blind the army without it.

The airplane on the attack has been stopped by three things: the defensive fighter plane, the radio direction finder and the old-fashioned tree. The last of these made the plane almost entirely useless in the fighting in Bataan, in Malaya and in the forested areas of Russia, for planes simply could not find the ground troops. Perhaps the greatest function of the plane is yet to come: to pick up an entire army, put it down deep in the enemy's rear and then supply it.

The plane is of all weapons going through the most violent



WORLD WAR TANK broke the trench stalemate by getting the infantry past the hail of machine-gun fire in an armored vehicle. Antitank guns were not yet effective.

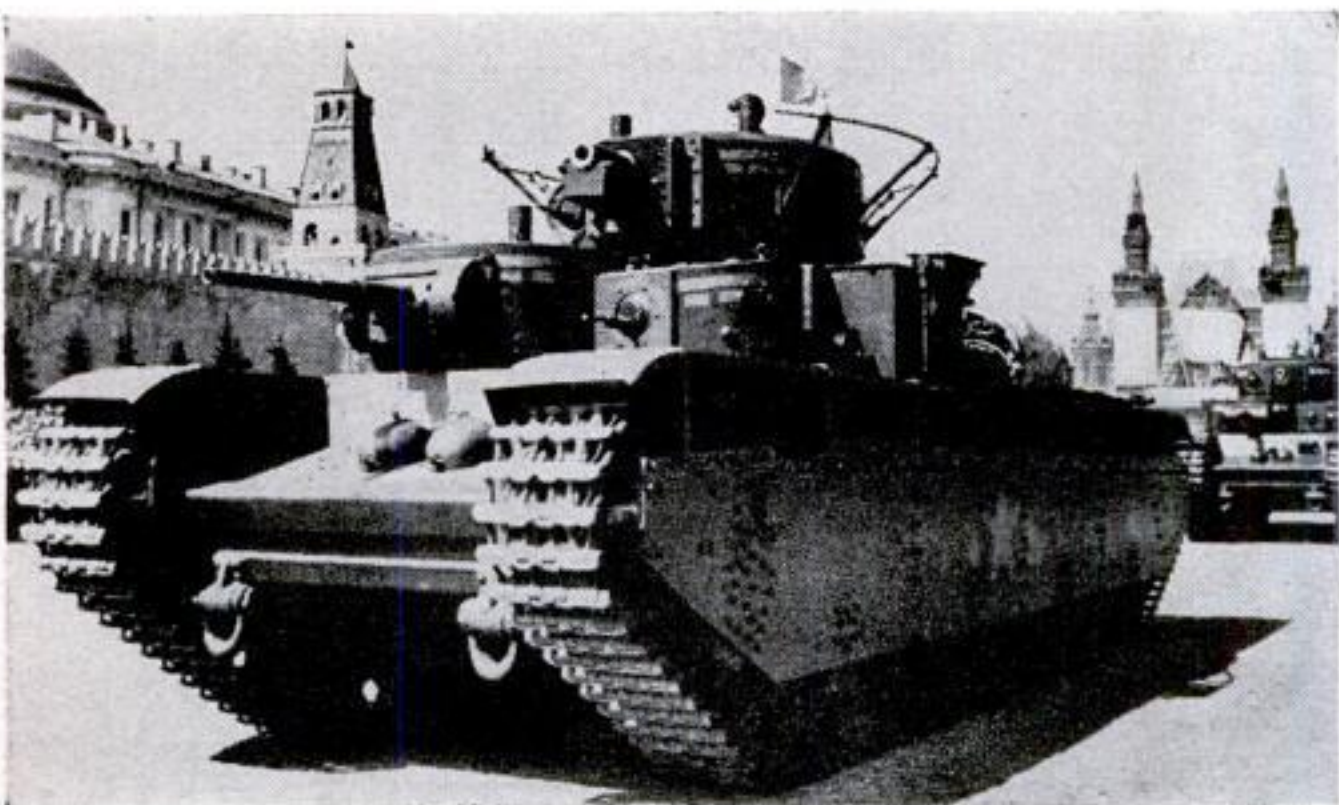
evolution. A new fighter plane catches an old bomber, a new bomber flies above the range of the biggest anti-aircraft guns and the old fighter, a new fighter goes up four or five miles to catch the old bomber with new detecting devices even against night bombers. Engines move from 600 hp to 1,200 to 1,500 to 1,800 to 2,500, giving fabulous ranges and load capacities and speeds. Eight guns fire streams of armor-piercing bullets or shells at one touch of a trigger. Bombsights and calculating machinery calling on the most abstract and visionary mathematics became standard issue.

To nonsoldiers all this seems strange and confusing—a long way from the "simple" wars of the past. The plain fact is that only "abstract" scientists, engineers and production men today know what war is all about in detail. Yet there is a comprehensible pattern for laymen behind these scientific complexities. War, after diddling along with inefficient weapons for several thousand years, suddenly began to find its problems solved in about 1900. National armies came to number 5,000,000 men. Since then, the speed of invention has not slackened, but fabulously increased. The weapons and tactics of war at this period are in a violent state of flux.

Many things are possible. For example, there may be better ways to fire a shell than by gunpowder. A fast airplane that could stand nearly still in the air, land in a small space, hover and fly among the trees, would revolutionize troop command from the air. No weapon is above change. Any way to enable a tank to fire accurately while moving, any design to deflect striking shells, to increase a tank's speed and maneuverability, would be useful. Any device that will take troops safely up close to the enemy, that reduces casualties during attack, is useful. Some inventor may achieve destruction of enemy men and machines by the use of atomic-energy control. Every army would like to have a bomb that explodes just before contact, some feet above the ground. Such a bomb could also be used by planes to bomb other planes in air. And so on.

The Germans have been so far the most brilliant exponents of this modern war. When they had a fantastic superiority in weapons, as in Poland, Flanders and France, superiority in tactics and strategy was unnecessary. They could have marched in backward. When their weapons found an equal in Russia, superior tactics won them a way across a thousand miles. But the Russians evolved a countertactic. Part of their system was to fight from forts. The fort this time was a forest, in which the surrounded Russians vanished. They expected to be driven out of their fort, but at great loss to the Germans in men and matériel and time. They made punishing sallies out of their fort and sometimes fought their way through the German rear to their own lines.

In the historic cycle of warfare, today's conflict is in the high-mobility stage of heavy infantry. Its tactics are suggested by Alexander, Caesar and Gustavus Adolphus. It is not in the light-cavalry stage, as some experts deduced from a misinformed study of the Battle of France and as the British briefly thought in North Africa. Surprise and maneuver are all-important, but they must be backed up by heavy and superior firepower. As in all highly developed periods, war is now a coordination of all arms, all tricks and devices, based on heavy infantry and artillery. And in such a warfare, where the very complexity of the army renders it vulnerable, the army that moves fastest and strikes with surprise has every advantage, if it has real firepower. So far the democracies have been slowest to learn the technique of coordination of all arms. Only when the American army has the best weapons, the best mastery of tactics and the best coordination of all arms will it be safe to add the U. S. to the victors of history.



RUSSIAN TANK of 1942 has put on size, armor, speed and gunpower to resist and avoid the fire of antitank guns. It is still vulnerable but has tremendous shock power.





BY APPOINTMENT
TO H. M.
KING GEORGE VI

V.A.T. 69

In Age and Taste
SCOTCH WHISKY
at its Best!

8 YEARS OLD
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"Quality Tells"

PARK & TILFORD IMPORT CORP., NEW YORK, N. Y.

"So, I told him... 'Either I wear my REGAL-AIRE Tie or I don't enlist'."



You can't blame him for wanting to wear his Regal-Aire, a favorite everywhere! Thousands of men in the armed forces are buying and wearing Regal Service Ties. They know Regal's dependability. They know...good appearance is important! Ask your dealer to show you Regal's beautiful new fall styles in stripes, plaids, figures, solid colors.

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THE TIE THAT DEFIES WRINKLES

Pre-War Quality \$1.00
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KEEP YOUR CHIN UP WITH A REGAL TIE
Good Appearance Means Good Morale

For sale at thousands of Men's Stores, also at over 100 Post Exchanges and Ships' Service Stores.

Regal Cravats

FRANK & MEYER NECKWEAR CO., ST. LOUIS
MAKERS OF FINE NECKWEAR FOR OVER 40 YEARS



Lucille Ball is chased over big bed by Dance Coach
Charles Walters rehearsing for "Du Barry Was A Lady"



LUCILLE PLAYS HARD TO GET, ENDS UP ON TRAMPOLIN BED IN BACKGROUND

Lucille Ball

She romps through 39 honky-tonk parts before winning her first chance as a big-time star

The bed on which Lucille Ball bounces to stardom in these pictures is called a trampoline, is made by stretching canvas across a springy frame. It is used in a rowdy bedroom scene in M-G-M's *Du Barry Was A Lady*, in which Lucille plays the Du Barry part created by Ethel Merman on Broadway. Lucille learns routines with a coach, but in the movie she does them with Red Skelton.

Lucille Ball has bounced around a lot before winning her new long-term contract with M-G-M. She appeared in 1931 as a Broadway chorus girl in *Rio Rita*. Her orange hair, cuddlesome figure, and breezy manners convinced Hollywood that she was a good serviceable type, so Lucille was dumped into 39 grade-B movies doing honky-tonk parts. Not until this summer when she played "Her Highness" in Damon Runyon's *The Big Street* for RKO did anybody face the truth about Lucille: the girl can really act. As Runyon's tough little crippled night-club queen, Lucille is superb.

Lucille herself is almost a true Runyon character. She is ambitious, hard, flamboyant and luxury-loving. Yet paradoxically, she is generous, funny, extremely sensitive, and a crack poker player who often sends presents the next day to her losers. She drives a flashy red convertible car, and breaks the wind by her long false eyelashes. She lives on a farm with her husband, Desi Arnaz, a Cuban singer, who refers to her fondly as "a real hunk of girl." On the following page, you will see in more detail what he means.



LONG REHEARSALS LIKE THIS ON TRAMPOLIN BED MADE LUCILLE SEASICK

CONTINUED ON NEXT PAGE



Jockey joins the Bathroom Laundry

No longer is the bathroom wash line sacred to the flimsies of women. For Dad learned about undies from her and now proudly flaunts his Jockey underwear between Mother's stockings and Sister's scanties.

Today, we must all "save"—"conserve," and a good way to prolong the life of underwear is to wash it gently and frequently. Remember, Jockey dries overnight and needs no ironing.

Care puts wear in underwear!

Be careful in buying. Be sure you are accurately measured. Underwear that fits correctly lasts longer. Insist on Jockey, the famous brand that gives you the patented *Y-front construction providing mild, masculine support—the angled opening that will not gap—and freedom from bulk, bind, and creep. Always look for the words "Jockey" and "Coopers" on the label.

Jockey Underwear

*—The Source of Support



Short



Midway



Over-Knee



Long

BUY WAR BONDS & STAMPS



TRADE MARKS REG. U. S. PAT. OFF.

Coopers INC.
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NEW YORK CHICAGO LOS ANGELES SAN FRANCISCO SEATTLE
Made and distributed in Canada by Moodies, Hamilton, Ont.; in Australia by Macrae Knitting Mills, Sydney; in British Isles by Lyle & Scott, Ideal House, London; In New Zealand by Lane-Walker-Rudkin, Ltd., Christchurch, S I



Get to know DOMINO



In judging cigarettes,
you'll find
There's only
one true measure—
Just choose the blend
that's been designed
To give you
Greater Pleasure!

DOMINOS are blended especially for *pleasure*—from nature-ripened, choice imported and domestic tobaccos. A smooth, rich, agreeable tasting cigarette. Dominos are vacuum-cleaned, generously packed, firmly rolled. Get to know—Domino!

**Compare Domino with
any cigarette at any price!**



"A Richer, Smoother Smoke"



This is your Invitation
to join the world's leading
After-Shave Club

Sign and mail this advertisement with ten cents. We'll send a bottle of Aqua Velva, the world's most popular after-shave.

Cool as an ocean breeze, Aqua Velva leaves your skin feeling softer, smooth-

er. Clean, fresh scent.

ELECTRIC SHAVERS use Aqua Velva before and after shaving for better results.

Offer good in U. S. A. and Canada only. The J. B. Williams Co., Dept. CA-19, Glastonbury, Conn.—makers of fine shaving preparations for over 100 years.



Name _____

Address _____

Lucille Ball (continued)



Lucille dances especially for LIFE's cameraman, Johnny Florea. She learned this routine for *The Big Street*, but it was cut out of the movie. Now in Hollywood Lucille has one unreleased movie, *Seven Days' Leave*, made with Victor Mature, but she



says she hasn't any idea what it's about because script has been rewritten so many times. Lucille began acting and dancing when she was a tot living in Jamestown, N.Y. All mirrors had to be turned to the wall because Lucille was so fond of showing off.

CONTINUED ON PAGE 121

A Sure Hit



HERE'S 3-WAY HELP IN TASTE-TEMPTING **APPLE JUICE**

GOOD FOR YOU—the pleasant way is drink your apple a day.

PURE—made from the pick of New York State's crop.

GOOD NEWS—a welcome change of pace in the fruit juice cycle with meals or between meals.



ONE OF THE FAMOUS **MOTT'S PRODUCTS**

Also—MOTT'S CIDER • MOTT'S APPLE SAUCE
MOTT'S JELLIES • MOTT'S VINEGAR
Produced by the Distributors of Sunsweet Prune Juice

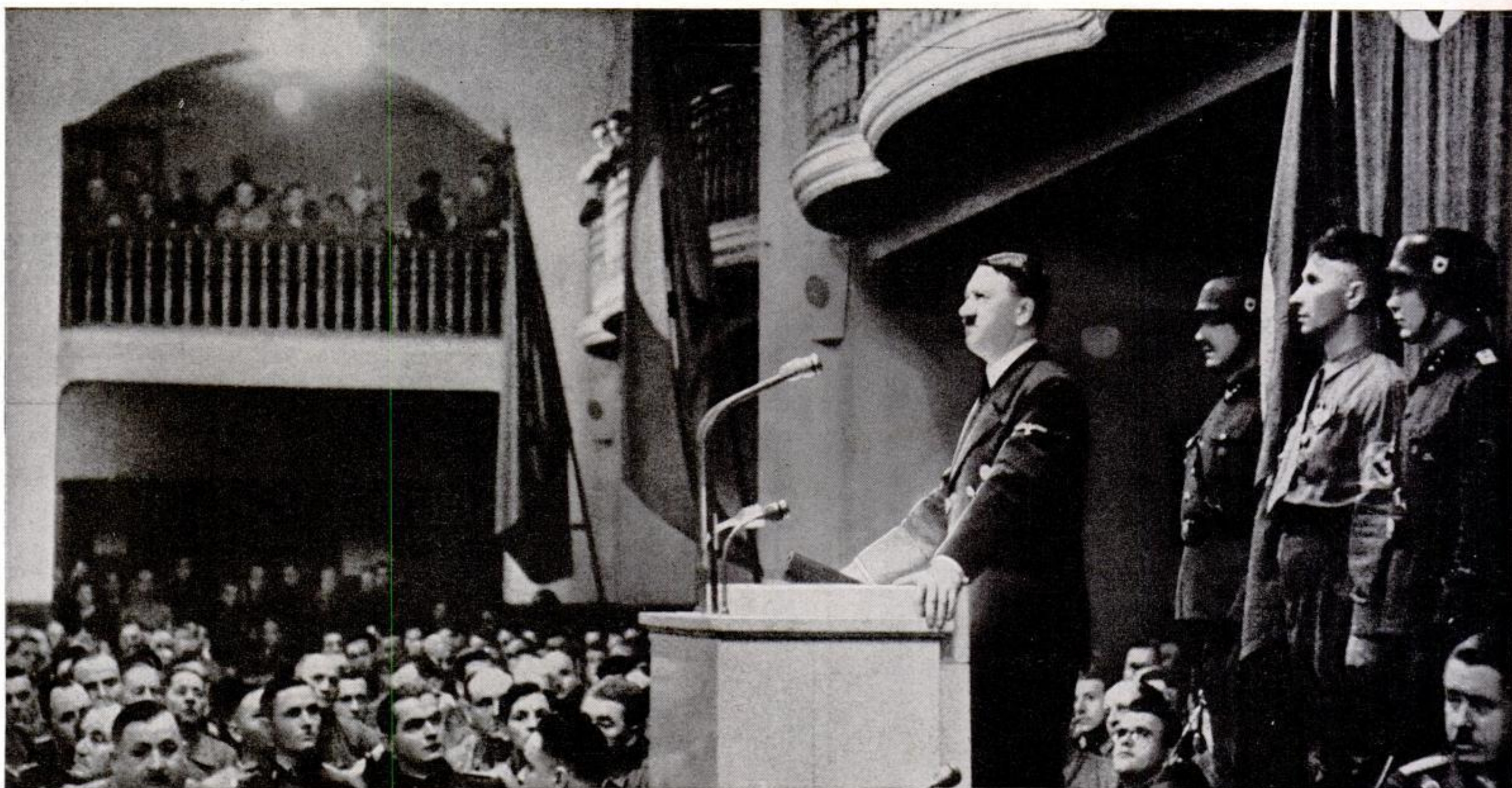
How're you going to compete with a Uniform!

YOUNG CIVILIANS are in for difficult social times, for there is no denying the glamour of a uniform. Next best to wearing Uncle Sam's clothes is to appear in one of the smart, luxurious fingertip coats by Monarch. Styled to a he man's taste . . . painstakingly crafted of fine selected gabardines, corduroys and woolens . . . reversible, if you wish . . . Monarch fingertips are the answer to young America's outdoor needs. Look for the Monarch label for better outdoor garments. MONARCH MANUFACTURING CO., 333 E. Chicago St., Milwaukee.

► If you don't know the Monarch retailer in your community, write us and we will tell you.



Makers of leather and fabric jackets for men and boys • Fingertip and leisure coats



Suppose Hitler asked for an Armistice November 11th?

November 11th will be the 24th Anniversary of the Armistice of the first World War.

It is conceivable that Hitler might ask the United States for his kind of an Armistice on that day. The idea may sound strange, but from Hitler's point of view there are sound strategic reasons for his making such an offer on November 11th.

Hitler's best chances of winning this war, it is plain to see, lie in the near future. Every day, every week, every month America's power is growing, is making it harder for Hitler to defeat us and our Allies. Better from Hitler's point of view to defeat each of his enemies individually. Since he can't get at the United States to deliver a quick military knockout, his main hope lies in trying to get us out of the war. To do this he must attack us on the Psychological Front, launch a successful Peace Offensive—soon.

In such an assault on our Psychological Front, Hitler would use all the tricks in his well-filled bag—would attempt to confuse, browbeat, and discourage Americans. He would try to make us distrust our govern-

ment, our military leaders, and our Allies. And he would tell us in honeyed phrases that he had no interest in conquering this country—that he wanted us to live our lives in our own way without any interference from him.

With every week that passes, however, the readers of LIFE become better equipped to recognize such a Fascist approach.

Six years of light on Fascism

For LIFE has given its readers plenty of insight into Nazi methods and the meaning of Nazi promises during the six years that this great magazine has been in existence. LIFE has also given its readers a full and faithful record of what life under Fascism is *really* like . . . what peace with Hitler would *really* mean to them and to their children.

And LIFE has given its readers an honest report of the military situation with neither defeatist pessimism nor misleading optimism, an accurate report of our increasing military might.

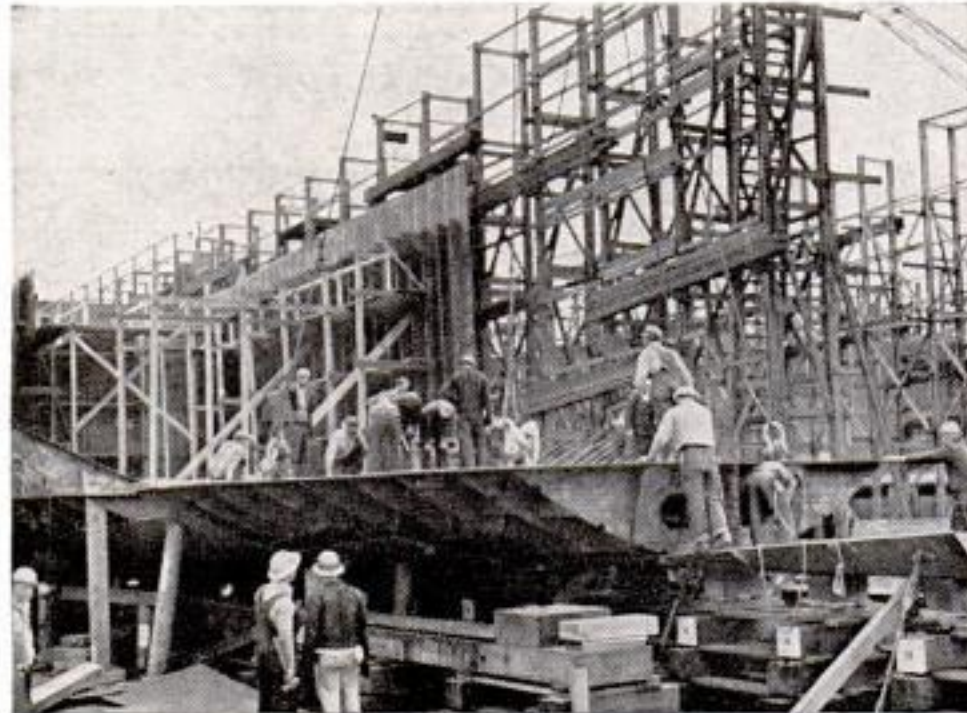
Each week LIFE readers (who now number more than 23 million civilians plus 63% of the men in our armed forces) increase their understanding of our enemies, our Allies, and ourselves — the basis on which growing national and allied unity and a stalwart Psychological Front rest. Each week LIFE plays its part in strengthening this front.

We believe that no American who reads LIFE each week could give any other answer except "Go to hell!" if Hitler, in sugar-coated words, were to suggest an Armistice on November 11th.

LIFE



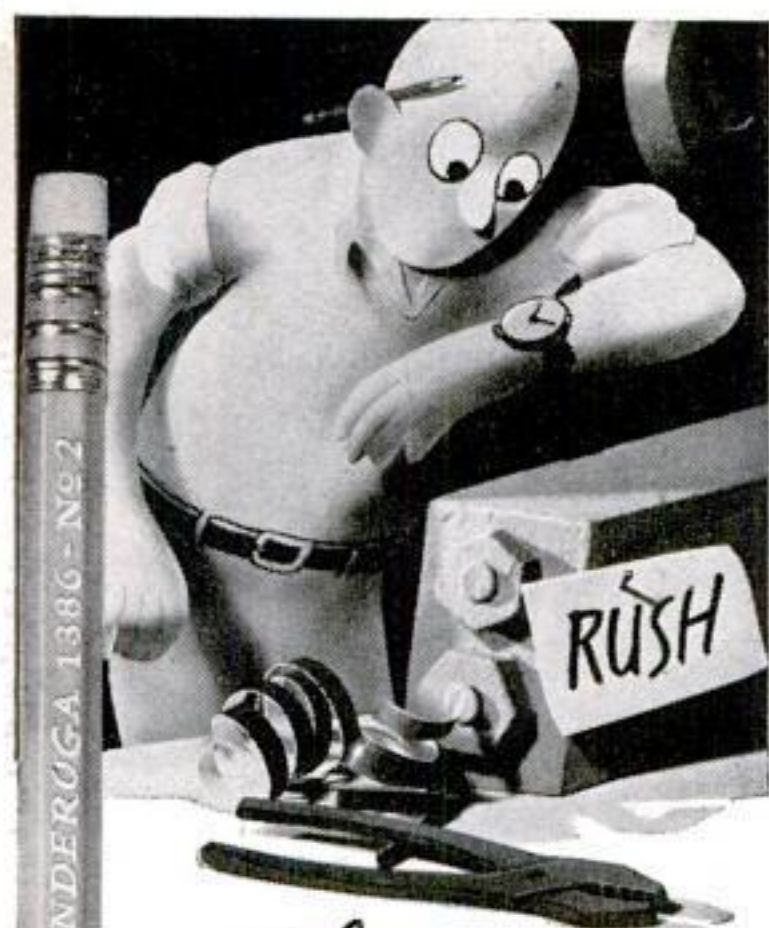
LIFE demonstrates how Americans, calloused and uncalledous, are speedily being transformed into the toughest, finest, smartest army in our history. Although it started small, month by month it is growing rapidly. As long as Americans recognize how good their fighting forces are, Hitler scare-talk about the invincibility of the German Army will make little headway.



LIFE shows where we are licking our war production problems, where we aren't. Inspiring articles like the one on the Kaiser Shipyards point out how we *can* turn out the equipment we *must* turn out if we are to defeat Hitler. Other articles, seeking to arouse all people concerned to do a better job, point out where we are not doing as well as we might.



LIFE shows that the "New Order" which Hitler talks about is a far cry from the "New Order" which he puts into practice. The picture of these starved Greeks is one of many grim bits of testimony which have helped LIFE readers understand the realities of Fascism. No Americans exposed to such factual word-and-photo reporting want to compromise with Hitler.



*When
Impatience
is a virtue!*

Right now you should be impatient with interruptions that delay your daily output! America's No. 1 job today is to deliver—or else!

Let *nothing* stop you. Not even pencils! Remove all doubt with Ticonderoga. They are still going strong when others have made their last mark; these strong, smooth-writing pencils quicken the job. Wasteful, inferior pencils



require 50% more energy. Start saving energy and minutes with Ticonderoga!

TICONDEROGA

Joseph Dixon Crucible Co., Dept. 43-J10, Jersey City, N. J.

THE definite purpose of LIFE is to inform its readers of what is going on in the world today—to bring them the news which can best be told in pictures.

Shampoo
IN 10 MINUTES

without
losing
your curl

Now you can have beautifully clean hair anytime—all the time! Minipoo, a fragrant, amazing powder cleanser requires no water—works like a charm • Removes grime, excess oil and odors • Does not take out the wave • Does not dry the hair • Contains no orris root

• Easy to apply and remove • 30 Shampoos, Mitten Applicator included, \$1. At department and drug stores.

Or write ANNETTE JENNINGS, INC., Dept. L-1, 1 East 42nd St., New York, N. Y.



MINIPOO

NEW QUICK DRY SHAMPOO

Lucille Ball (continued)



In "The Big Street" Lucille Ball, crippled in a night-club brawl, demands to go south though she has no cash. In top picture her New York friends bid her goodbye. Then her humble lover (Henry Fonda) hooks a ride for her on a truck, pushes her along a highway, hooks another ride on a cotton wagon, finally reaches Florida seacoast.

DENTON SLEEPERS Protect HEALTH



The boy wears a One-Piece Denton; the little girl a Two-Piece Denton, (extra lowers are available).

MOTHERS know that Denton Sleepers keep children fully protected, dry and warm—even if bed covers are thrown off. This assures Mother of unbroken rest.

Denton soft-knit Fabric is made of 97% unbleached cotton and 3% soft wool. The loose spun yarn, knit in an open stitch, together with the wool, carries off perspiration slowly, keeping the wearer dry and warm.

Economical because durable. Long staple cotton makes an unusually strong fabric. Strong flat seams, durable, extra-heavy romper feet, extra-full drop seat and stout button-holes.

**Regular Soft-Knit Dentons are Light Gray
Deluxe Dentons are Cream White**

Regular (Light Gray): One-Piece, sizes 0 to 2 button down back; sizes 3 to 14 button down front.
Two-Piece, sizes 0 to 5, button around waist, for infants needing frequent changing. Baby Bags, one size; Hoods, three sizes.

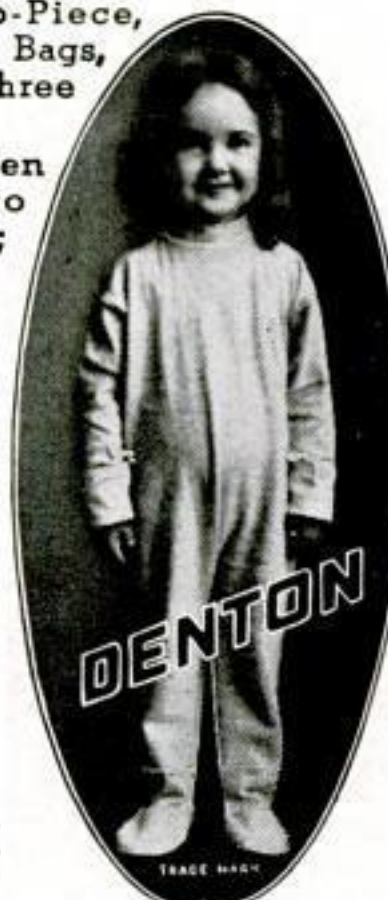
(Above) One-Piece Deluxe Cream White, sizes 3 to 14. Waist tie-belt, rib-knit wristlets and anklets, bloused legs. Deluxe Two-Piece, sizes 0 to 5; Baby Bags, one size; Hoods, three sizes.

DENTONS for Men and Women, two styles, many sizes; Adult Sleeping Hoods, two sizes. Genuine Dentons have trade mark tag, and name on neck hanger.

NOTE: To get long use of Dentons, follow our Washing Directions.

**DENTON
SLEEPING GARMENT
MILLS, INC.**

Centreville, Michigan
Dentons are made and distributed in Canada by Mercury Mills, Ltd., Hamilton, Ontario.





"Just let me take two more rolls of you in that Arrow Tie!"

• We hope she's using color film, because the new Arrow Ties for Fall have many, many rich colors in them. In addition, of course, they have smart designs, a lining that sends wrinkles scurrying, and an uncanny ability to tie into perfect knots. We suggest you see them at once. \$1, \$1.50, \$2, \$2.50.

ARROW TIES

As Outstanding as Arrow Shirts

★ BUY U. S. WAR SAVINGS BONDS AND STAMPS ★

Made by Cluett, Peabody & Co., Inc.

"Here's tae lairmin' aboot Scotch frae Teacher's"

Scotch-wise folks emphatically say that what you learn about Scotch whisky from Teacher's is all you really need to know...

"It's the flavour"

Made since 1830 by Wm. Teacher & Sons, Ltd., Glasgow

TEACHER'S
Perfection of Blended SCOTCH WHISKY

SOLE U. S. AGENTS: Schieffelin & Co., NEW YORK CITY • IMPORTERS SINCE 1794



Don't be fooled by enemy's promise that he wants information to comfort the folks back home. Give only name, rank and serial number required by international law.

ARMORED FORCE CARTOONS TELL U. S.

Americans have always been comic-strip fans. Advertisers long ago learned that a sure and direct way to the hearts of their public was through stories told in cartoons. Now this tried-and-true advertising technique is being put to a more serious use by the greatest advertiser of them all, the U. S. Government. Through such cartoons as the Air Forces' comic R. F. Knucklehead series (LIFE, May 25) and the Army's Protective Measures drawings (LIFE, June 29), soldiers and civilians are learning how to fight and live a war.

One of the latest in the Government's burgeoning series are the

By insults and gibes enemy attempts to get a rise out of prisoners and goad him into giving military information. Don't let thoughtless loyalty lead you into this trap.





"UNDER INTERNATIONAL LAW, I AM ONLY REQUIRED TO STATE MY NAME, RANK AND SERIAL NUMBER; NOTHING ELSE."

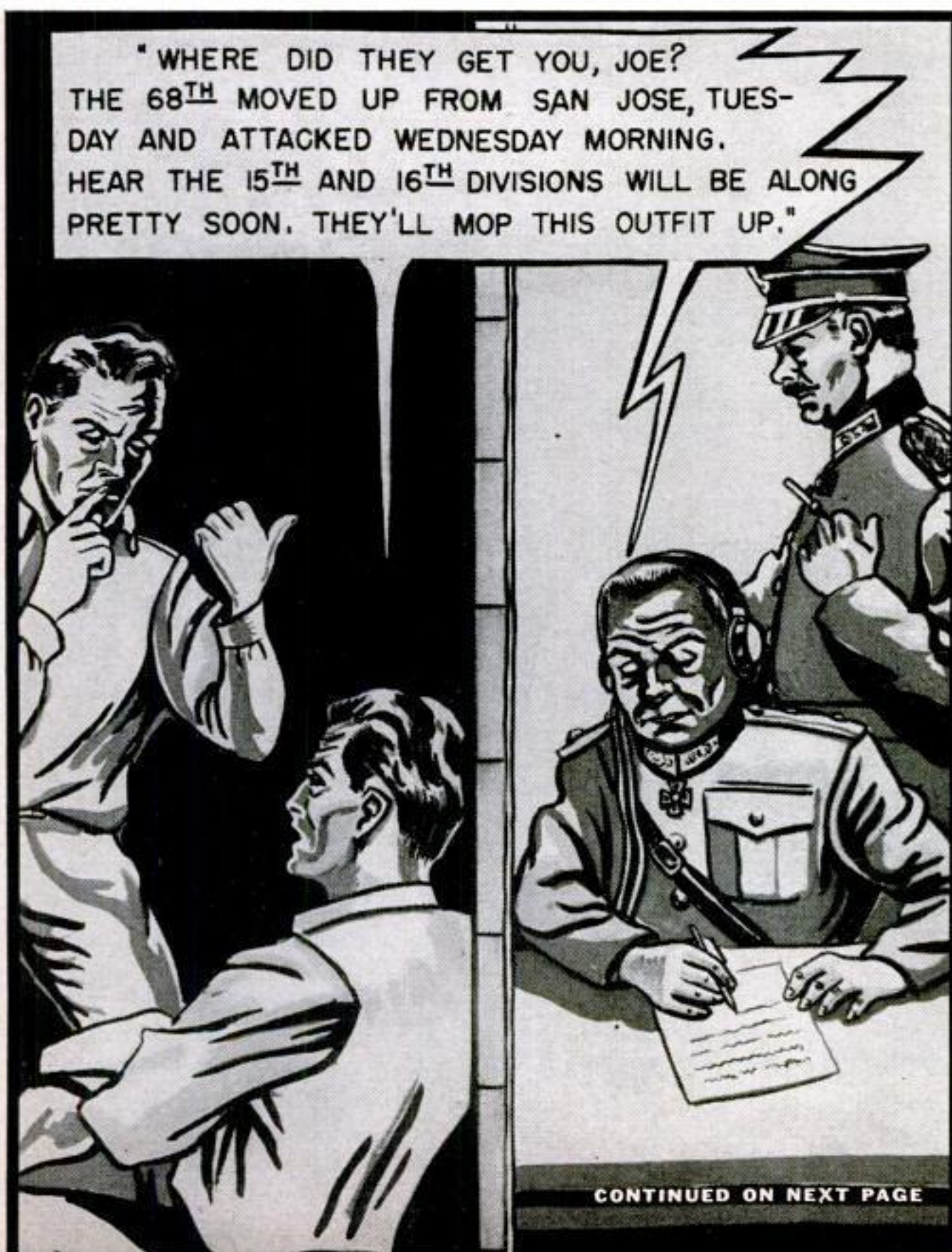
"YOU MIGHT AS WELL TELL US WHERE YOU WERE LAST NIGHT. WE ALREADY KNOW, YOUR BUDDY TOLD US."

The bluff is a classic method of wheedling military information out of prisoners of war. Don't fall for this; they wouldn't ask questions if they already knew answers.

SOLDIERS HOW TO ACT IF CAPTURED

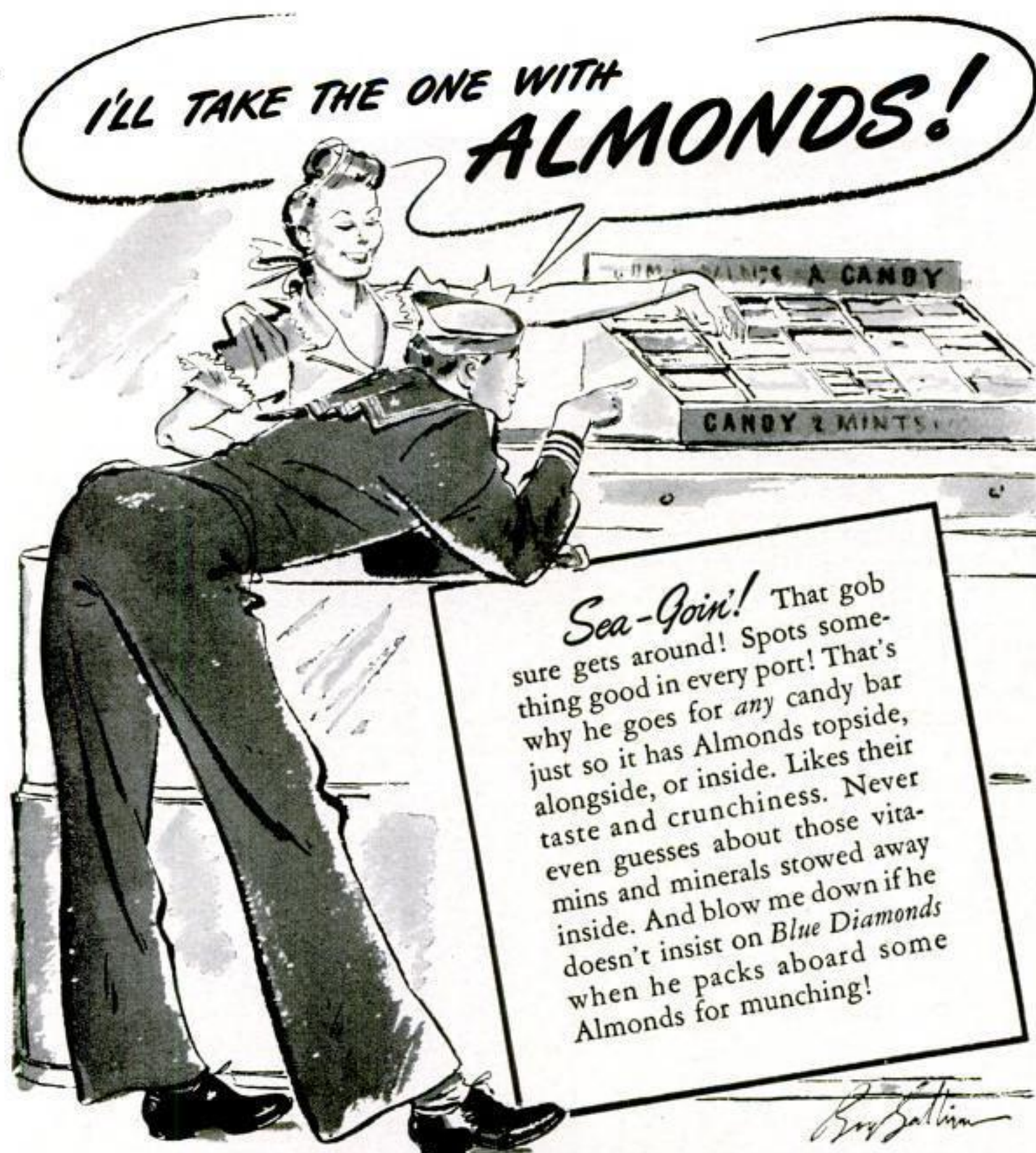
drawings shown here, which carry a grim message to American soldiers. Published recently in the *Armored Force News*, these cartoons warn soldiers to be prepared for any exigency in war, even possible capture, and tell them how to behave in the hands of the enemy. There are international laws governing the treatment of prisoners of war, but the fate of many Americans who have been captured by the enemy has proved that rules don't always hold. So there is only one rule the Armored Force hammers home to its men: If captured, they must not, in word or deed, give military information to the enemies of their country.

No talk is private in prison camps, where enemy may be listening at all times. Don't tell stories betraying your country's military secrets even to your closest buddies.



"WHERE DID THEY GET YOU, JOE? THE 68TH MOVED UP FROM SAN JOSE, TUESDAY AND ATTACKED WEDNESDAY MORNING. HEAR THE 15TH AND 16TH DIVISIONS WILL BE ALONG PRETTY SOON. THEY'LL MOP THIS OUTFIT UP."

CONTINUED ON NEXT PAGE



I'LL TAKE THE ONE WITH ALMONDS!

Sea-Goin'! That gobsure gets around! Spots something good in every port! That's why he goes for any candy bar just so it has Almonds topside, alongside, or inside. Likes their taste and crunchiness. Never even guesses about those vitamins and minerals stowed away inside. And blow me down if he doesn't insist on *Blue Diamonds* when he packs aboard some Almonds for munching!

ALMOND CANDIES

"A favorite in any port"



No finer
fit at
any price

BESTFORM BRASSIERES

79¢

BESTFORM FOUNDATIONS

\$2.50 to \$6.50

BESTFORM

means "best form"



A SPECIAL PREPARATION FOR SHAVING

FOR THE 1 MAN IN 7 WHO SHAVES DAILY

**It Needs No Brush
Not Greasy or Sticky**

Modern life now demands at least 1 man in 7 shave *every day*—and men in service must get clean shaves, too. Yet daily shaving often causes razor scrape, irritation.

To help men solve this problem, we perfected Glider—a rich, soothing cream. It's like "vanishing cream"—not greasy or sticky.

SMOOTHS DOWN SKIN

You first wash your face thoroughly with hot water and soap to remove grit and the oil from the skin that collects on whiskers every 24 hours. Then spread on Glider quickly and easily with your fingers. Never a brush. Instantly Glider smooths down the flaky top layer of your skin. It enables the razor's sharp edge to *glide* over your skin, cutting your whiskers close and clean *without scraping or irritating the skin*.

ESPECIALLY FOR THE 1 MAN IN 7 WHO SHAVES DAILY

For men who must shave *every day*—doctors, lawyers, businessmen, service men—Glider is invaluable. It eliminates the dangers frequent shaving may have for the tender face and leaves your skin smoother, cleaner. Glider has been developed by The J. B. Williams Co., who have been making fine shaving preparations for over 100 years.

SEND FOR GUEST-SIZE TUBE

If you want to try Glider right away, get a regular tube from your dealer. If you can wait a few days, we'll send a generous Guest-Size tube for a dime and any used metal tube. It is enough for three weeks and is very handy for traveling.

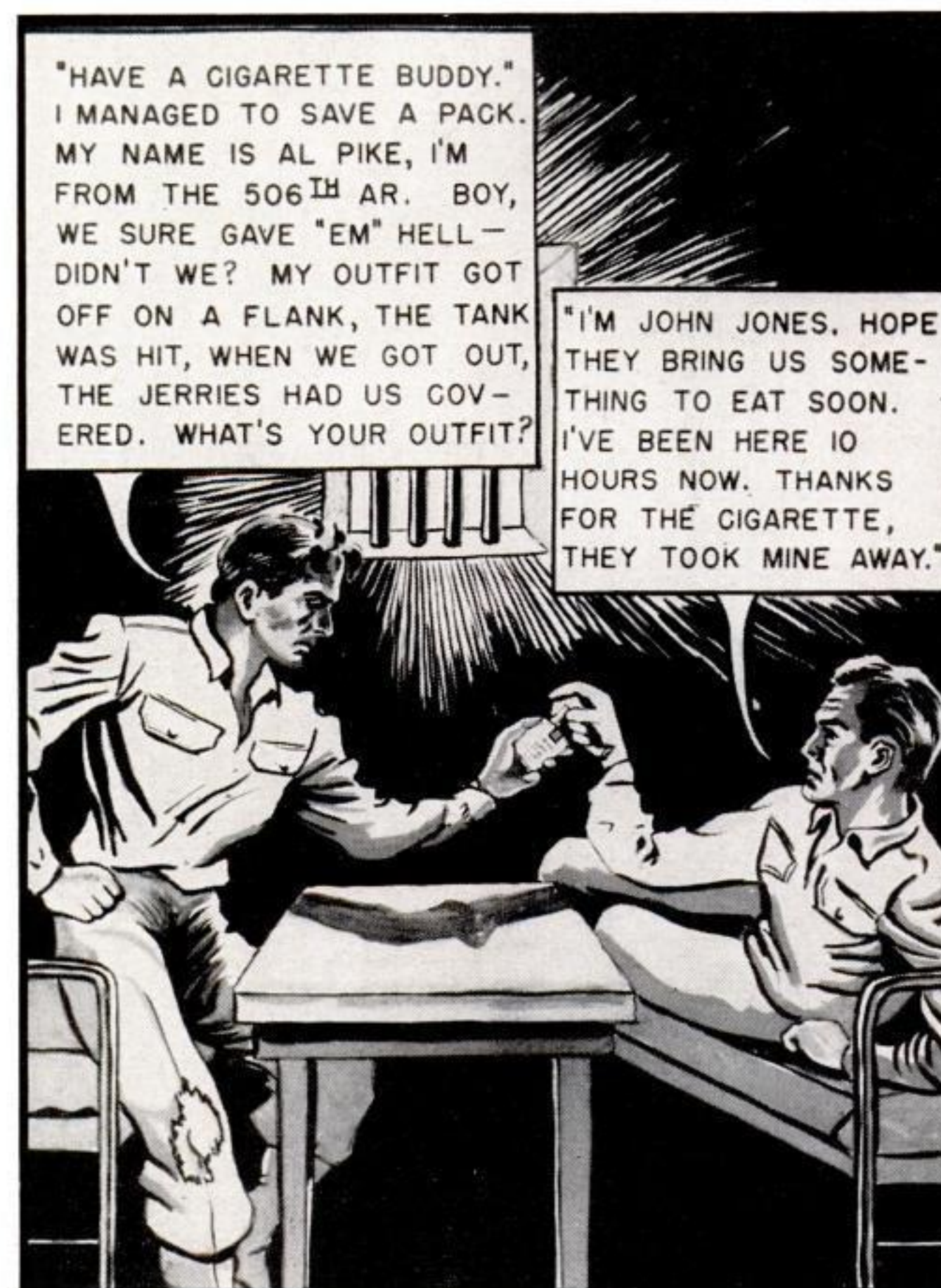
On this test we rest our case entirely—for we are positive that Glider will give you more shaving comfort than anything you've used.

Send your name and address with ten cents and a used tube to The J. B. Williams Co., Dept. CG-19, Glastonbury, Conn., U. S. A. (Canada: Ville La Salle, Que.) Offer good in U. S. A. and Canada only.

War Captives (continued)



Don't spread sunshine for the enemy by talking on the radio or making recordings for family and friends at home. This is most alluring of prison camp "booby traps."



Even your cell mate may be an enemy spy, so don't disclose information to him until you are sure of his identity. Enemy agents are scattered throughout prison camps.



Write for chart picturing 18 beautiful all-smooth models, telling benefits of MARVELOUS PATENTED FILTER



Also same styles, all-etched, with Eagle or "V" engraved PATRIOTIC EMBLEMS specially designed for men in service as well as civilians.

Wm. Demuth & Co., Inc., N.Y.

ANOTHER
VITAL AREA
MAPPED



by FORTUNE

Pacific Arena, second in a uniform series by Richard Edes Harrison, has been reprinted in full color (size 26"x 22") from FORTUNE for September. This map helps you study step-by-step movements in this global war... shows you in proper perspective the U. S. position and the positions of its allies and its enemies.

EXTRA COPIES ARE AVAILABLE at very low cost. Write for *Pacific Arena*, enclosing 25c, to General Manager, FORTUNE, TIME & LIFE BLDG., Rockefeller Center, New York City.

You can still buy extra copies of previous FORTUNE maps: *One World-One War* and *Atlantic Arena*. Order by name please, enclosing 25c for each map.

YOUR THEATRE MANAGER CAN TELL YOU NOW WHEN HE WILL SHOW THESE TWO ISSUES OF THE MARCH OF TIME

"THE FIGHTING FRENCH"

What is happening to France? What is the future of our ally of the first World War? Will collaborationist Marshal Pétain throw all France into partnership with the Axis? Can patriot General De Gaulle rescue his homeland with the Fighting French Forces alone?

The March of Time in its latest issue tells the dramatic story of the France which never surrendered, the France which is fighting underground today, the France which is the key to any European Second Front. Exclusive scenes, new facts, new light on the French problem.



"THE F.B.I. FRONT"



Fighting silent battles on a silent front, nearly 4,500 F.B.I. special agents led by Director John Edgar Hoover are winning countless victories over the enemy's invisible army of spies and saboteurs. See Uncle Sam's G-men at war in this exciting issue of The March of Time.

THE MARCH OF TIME

PRODUCED BY THE EDITORS OF TIME

FOR THE MILLIONS OF AMERICANS WHO SEEK INTELLIGENT ENTERTAINMENT ON THE MOTION PICTURE SCREEN





At native Kanaka feast, Wanda Engel of Toledo, Ohio, is presented with a grass skirt. One 4-year-old child whose mother was pregnant was asked whether

she wanted a baby brother or baby sister. "Neither," she said, "I want a baby American soldier." Below: corn roast is given for nurses and American officers.



ON DAY OFF, NURSES GET THEIR OWN LATE BREAKFAST IN FRONT OF TENT.

Life Visits U. S. Army

They swim, dance and have picnics even in

A U. S. Army nurse is a well-trained scientist. Equipped with the most modern of medical equipment, she is prepared to care efficiently and tenderly for the sick and the wounded—no matter where in the world she may be stationed.

But a nurse is also a girl. She is young and she likes to have a good time and to laugh. In a war world it is good for her to do so.

The pictures here, taken by LIFE's War Photographer Wallace Kirkland, show U. S. Army nurses in the jungles of New Caledonia having a good time. Most of their days are busy with regular long



For a cocktail party in a New Caledonia tent, a nurse prepares appetizers from canned American food. Nurses are officers, usually second or first lieutenants.



OVER IMPROVED FIRE KATHRYN ENRIGHT PREPARES TO POACH AN EGG

Nurses in New Caledonia

at the faraway jungles of the South Seas

shifts in field hospitals, taking temperatures and counting pulses. But in their time off they like to meet officer friends, go swimming or dancing or stage barbecue picnics in the hot tropical nights.

Officers in New Caledonia thank their lucky stars for the nurses. If it weren't for them, there would be practically no white women. What few there are are French and inaccessible. The officers tell a story about two French girls, beautiful and shapely, who played around in sunsuits. To keep soldiers away, their father spread the story that one was a leper. No soldiers dared approach.



Ping-pong playing in a tent set up near field hospital is always popular among nurses not on duty. Here Caroline Mirisha plays with Captain Allen McMahon.



Nurses swim & bathe, with shouts of excitement, in little streams, near which hospitals are usually built. Below: at a strictly informal Saturday-night dance

given by U.S. officers, Margaret Hammer dances with an Army flier. At such dances every nurse has a wonderful time because there are five men to every girl.



**EXTRA PLEASURE
IN EVERY SIZE
AND SHAPE**

**17% EXTRA
SMOKING
IN NEW BLACKSTONE
LONDRES-EXTRA**

SALUTE this big new value: The new longer Blackstone Londres-Extra. You get 17% extra smoking! Compared to regular Londres, that's like getting a 10¢ cigar free with every six you buy. Finest long-leaf Havana filler, still only 10¢.

Size and shape for every taste! Blackstone Perfecto, 2 for 25¢; Londres-Extra, 10¢; Cabinet, 10¢; Panetela, 2 for 15¢; Junior, 5¢. All filled 100% with finest Havana tobacco.

WAITT & BOND, INC., NEWARK, N. J.



BLACKSTONE CIGARS
THE CHOICE OF SUCCESSFUL MEN

Life Visits Army Nurses (continued)



The tent of Kathryn Gulbrandsen of Orange, N. J. is well stocked with cigarets, tea-cups, glasses, warm clothes, two potatoes, magazines, picture, alarm clock, fly killer.



Braiding her hair in front of a battered mirror hung on the decayed limb of a niaouli tree is Beatrice Bacon of Pitman, N. J. Coffee pot on the tree is used to carry water.



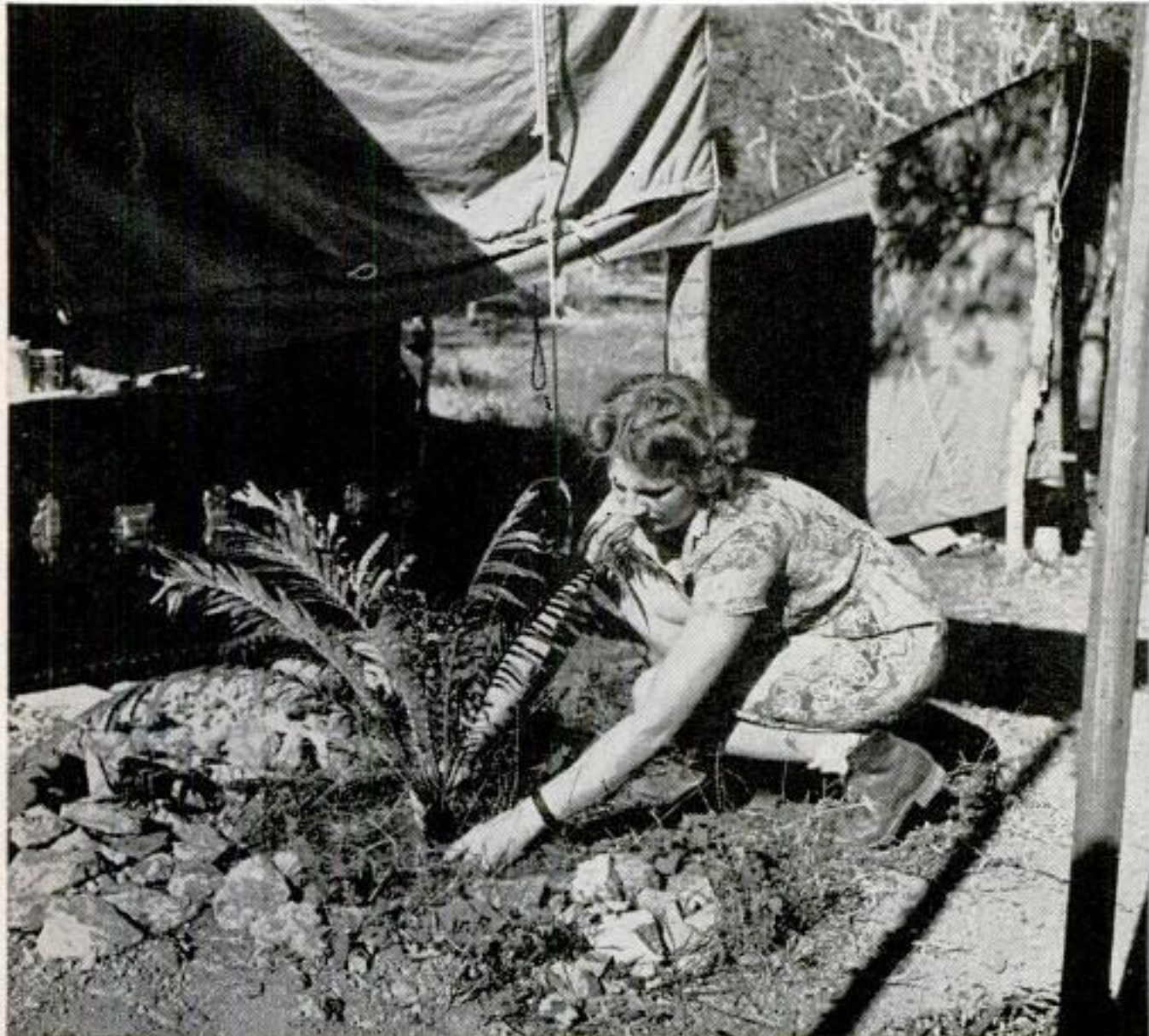
A little wire-haired fox-terrier pup belonging to Esther Boyer of Bellevue, Ohio, balances precariously outside owner's tent, which is superstitiously numbered thirteen.



Khaki Army pants which nurses wear are washed in a canvas pail, carefully wrung, and while still wet the crease is folded in. Next they are hung over a hanger to dry.



Woolen underwear is displayed by Florence Miner of Coulee Dam, Wash. Although days in New Caledonia are warm, the nights are cold, require this kind of clothing.



A fern is planted outside nurses' tents to "make the place look like home" by Helen Jones of Conneaut Lake, Pa. Other nurses plant small flower beds, raise native buds.

CONTINUED ON NEXT PAGE

Prof. (Fred) Allen says:
 "Wartime hint...the shortest distance between two points is **FIRE-CHIEF** Gasoline!"



You're welcome at
TEXACO DEALERS
in all 48 States



 **TUNE IN: FRED ALLEN**
 every Sunday night—C. B. S.

A Vitality Meat SO GOOD TO EAT!



Menu

*POTATO RING FILLED WITH MOR A LA GOLDEN SAUCE
AUTUMN FRUIT SALAD
BUTTERED ASPARAGUS
PRUNE WHIP
BRAN MUFFINS
COOKIES

*Noodle or Rice Ring may be substituted, if preferred

POTATO MOR RING:—Boil 5 potatoes, diced, in small amount of water. Don't overcook. Combine with one cup thick white sauce seasoned with 1 tablespoon onion juice, 1 tablespoon chopped parsley. Add salt, pepper, dash of cayenne. Pack into well-greased ring mold, lightly sprinkled with bread crumbs. Set in refrigerator overnight. When ready to serve, turn out on oven platter. Bake in moderate oven (350° F.) 15 minutes. Fill center with contents of

1 can Wilson's MOR "chunks" heated in golden sauce. Garnish. Serve at once. Serves 6.

GOLDEN SAUCE:—Make white sauce. Simmer 10 minutes. Beat 2 egg yolks with ½ cup cream (or evaporated milk) and add to sauce. Stir in double boiler until thickened. Add 1 teaspoon Worcestershire Sauce, 1 teaspoon prepared mustard, salt and pepper. Add meat and heat. Serve at once.



MOR is the bandiest of meats. Needs no refrigeration and there's ample meat for four in each wholesome can of MOR.

George Rector

Food Consultant to Wilson & Co.



WILSON & CO.

Makers of the original Tender Made Ham



The Wilson Label protects your table

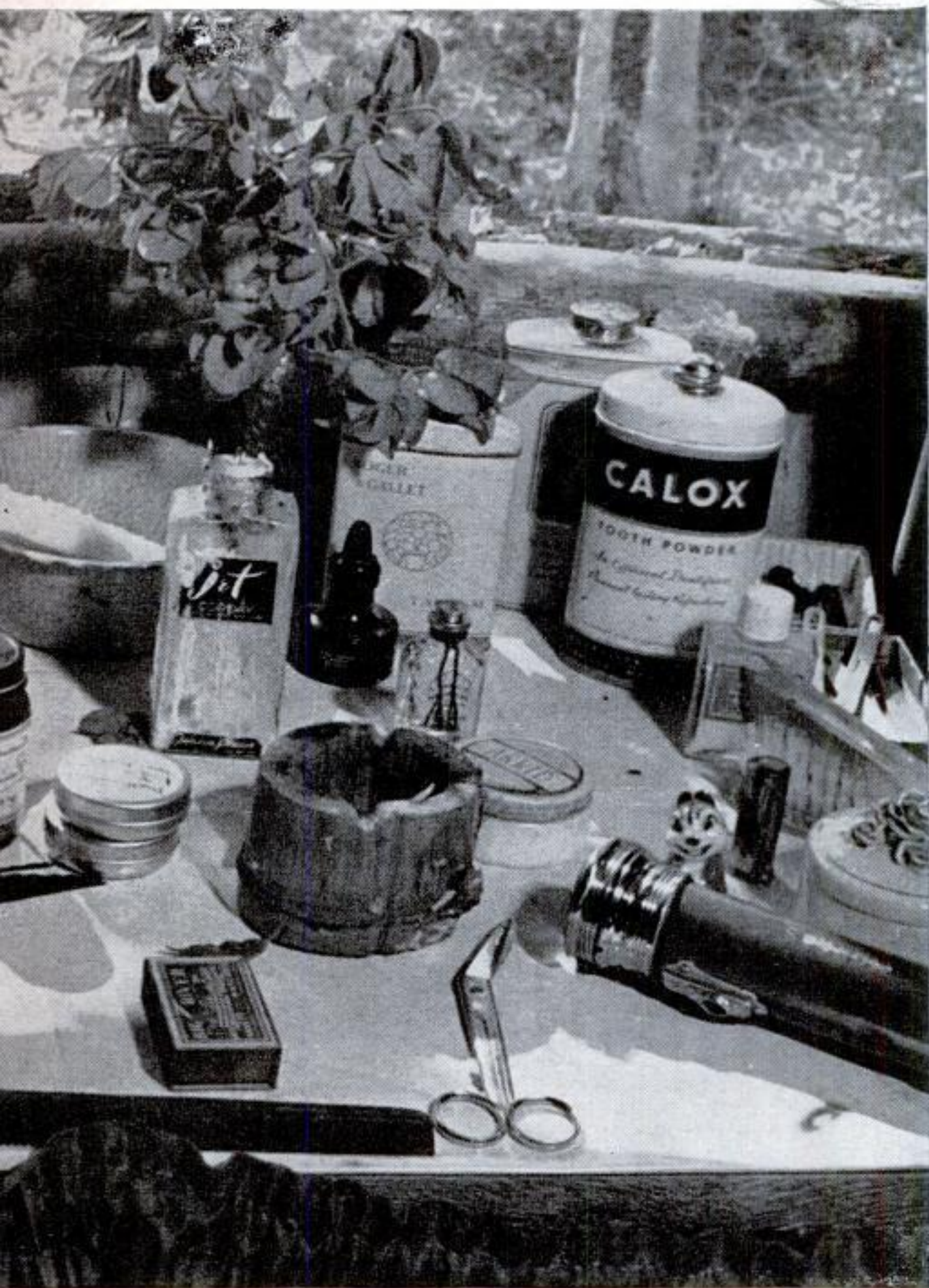
Lip Service Army Nurses (continued)



Dressing table in a nurse's tent in New Caledonia differs but little, except for candle, flashlight and water canteen, from any girl's dressing table at home. Notice the



In a tent with the sides rolled up, Betty Deschaines of Manchester, N. H. lies in bed late on her day off. During the rainy season, when the mosquitoes are plentiful



powder puffs, combs, scissors, ink, hair tonic, medicines, deodorant, toothbrush, cigarette holder, compact, good-luck charm, talcum, bobbie pins, ash tray and nail file.



in New Caledonia, she will sleep covered by mosquito netting. There are, however, few scorpions, poisonous snakes, lizards or ants. There are rats but no mongooses.

"Oh Darling,
It's Lovely!"

IN THE FINEST TRADITION
GENUINE-REGISTERED
a Keepsake
DIAMOND ENGAGEMENT RING

"For love . . . and country too! His hand will be the stronger for her confiding touch; her heart will be the lighter for love that means so much."

TRADITIONALLY . . . through five decades . . . "Keepsakes" have been cherished by America's loveliest brides as the precious symbol of the engagement. High standards of color, cut and clarity and the nationally established price on the tag enable you to choose any genuine registered "Keepsake" Diamond Ring with confidence. The Certificate of Guarantee and Registration is part of your purchase, assuring you of known quality and protecting you against the disappointment of an unwise choice. See the new matched sets at your Keepsake Jeweler . . . from \$50 to \$2500. Extended payments can usually be arranged.

BEFORE SELECTING THE RING . . . send the coupon or write. You will be sent these valuable books with illustrations of Keepsake's newest creations, the name of the nearest Keepsake Jeweler and information on how to select your diamond ring with confidence.

If it's a genuine registered Keepsake Diamond Ring the name "Keepsake" is in the ring.

Rings enlarged to show details.

CUSHING Set 450.00
Engagement Ring 350.00

BETHANY Set 375.00
Engagement Ring 300.00

LYNWOOD Set 235.00
Engagement Ring 225.00

ELSMERE Set 410.00
Engagement Ring 400.00

GREINA Set 167.50
Engagement Ring 125.00

ORLAND Set 192.50
Engagement Ring 150.00

ROSLYN Set 287.50
Engagement Ring 225.00

CREST Set 127.25
Engagement Ring 87.50

COLGRAVE 750.00

SURF CLUB 1000.00

PARADIS 800.00

Keepsake Diamond Rings, A. H. Pond Co., Inc.,
214 S. Warren St., Syracuse, N. Y.

Please send the helpful book, "The Etiquette of the Engagement and Wedding," with special supplement, "Wartime Engagements and Weddings," and illustrations of Keepsake Rings. I enclose 10c to cover mailing.

Name.....
Street and No.....
City..... L 10-42

Send coupon today for these two valuable books.

This Certificate of Guarantee and Registration is assurance of quality and value and is part of your purchase.



"STILL SMOKING
THOSE OLD-FASHIONED
CIGARETTES, CORPORAL?"

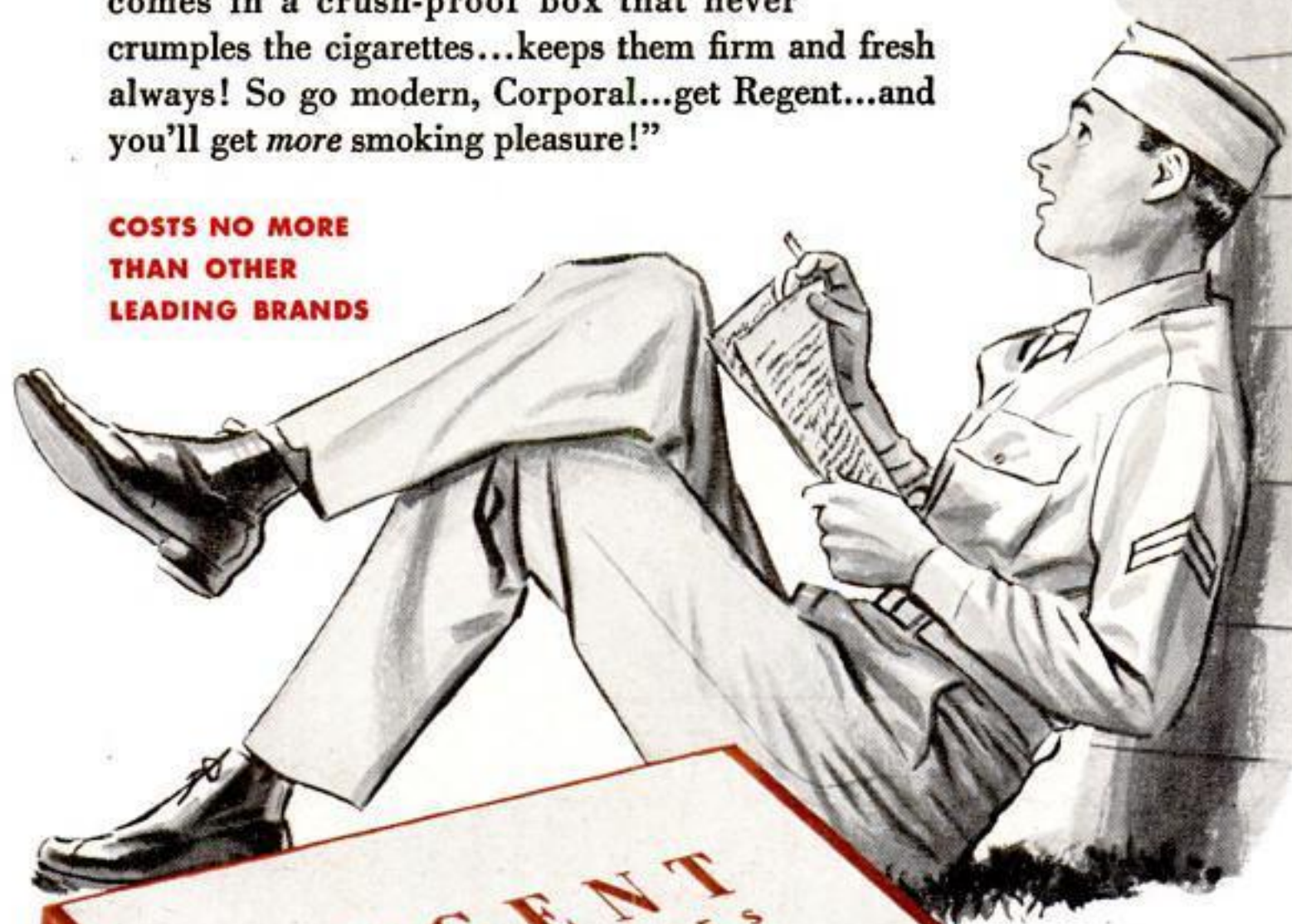
Go modern-
Smoke REGENT!

THAT'S no command, young fellow...just a friendly tip. King Size Regent's the cigarette for *moderns* like you. A *sensible* cigarette, gives you 20% more for your money.

Regent's designed for the modern American taste, too. The finest Turkish and Domestic tobaccos, they tell me...*specially selected* for finer flavor...then Multiple-Blended for *extra mildness!*

What's more, Regent has a streamlined oval shape, comes in a crush-proof box that never crumples the cigarettes....keeps them firm and fresh always! So go modern, Corporal...get Regent...and you'll get *more* smoking pleasure!"

**COSTS NO MORE
THAN OTHER
LEADING BRANDS**



*The only modern cigarette
with ALL the modern features!*

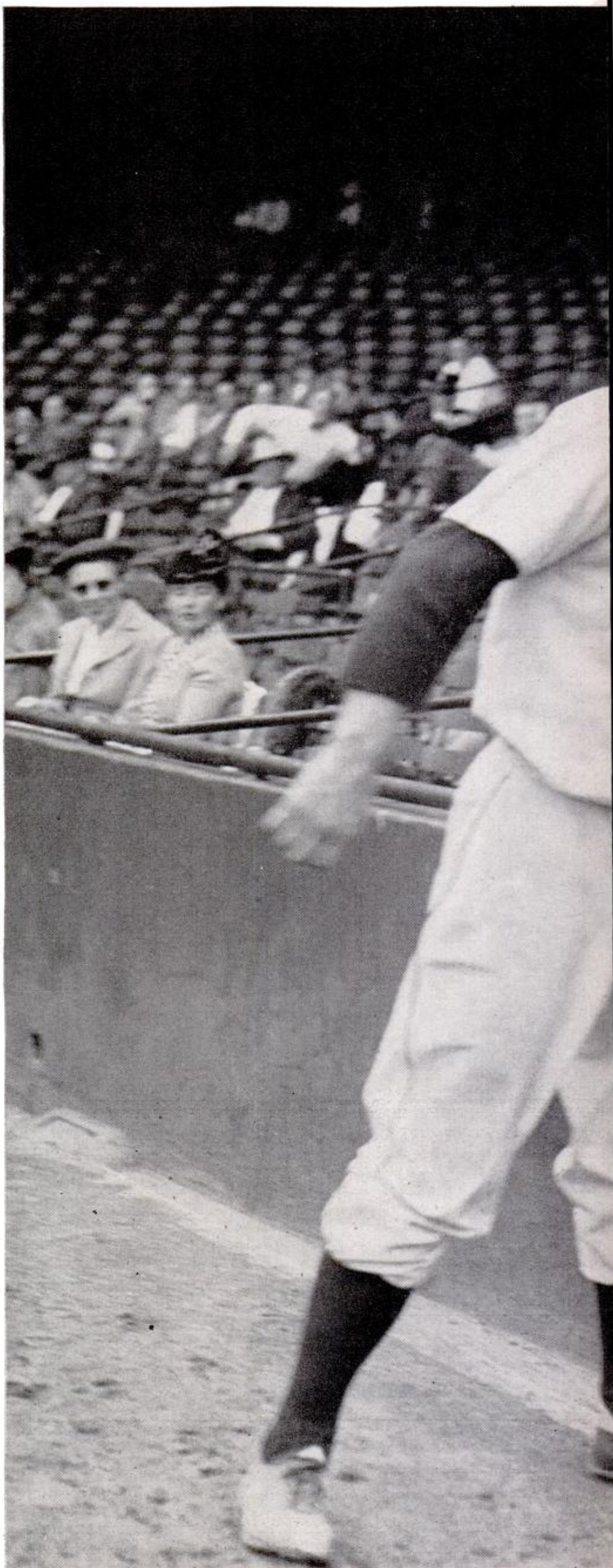
PICTURES TO

TOUCHY TIGER

Sirs:

War production is not the only thing that's dynamite in Detroit. And fights at Dodger games as the season nears its close may be more important sportswise, but

they don't make any better pictures than this one of a Detroit ballplayer yanking a fan out of a box. The player is Pitcher Paul "Dizzy" Trout, who labors for our toothless Tigers. On Sept. 11 he was pitching against the Philadelphia Athletics and not doing so hot. This spectator



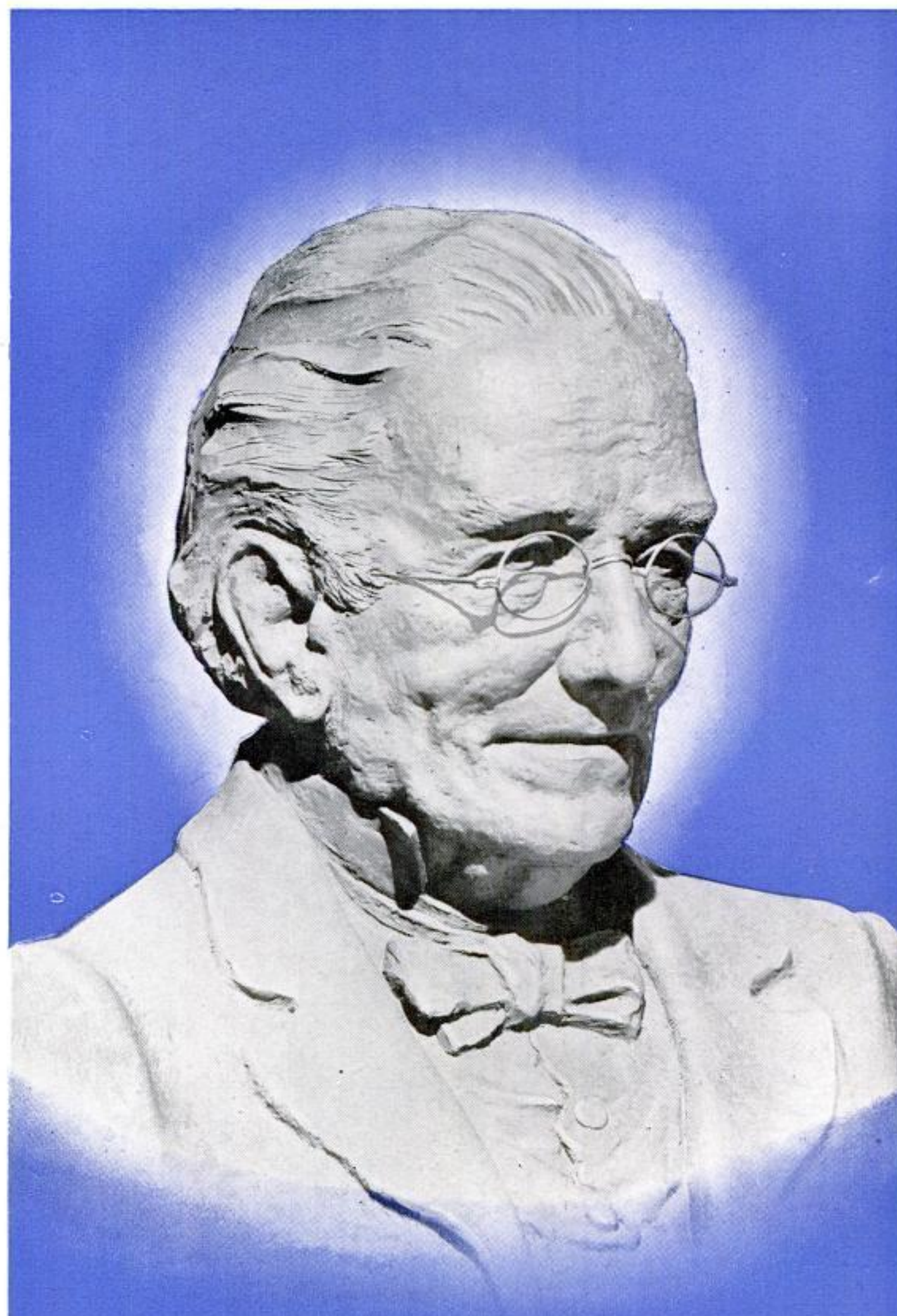
THE EDITORS

began ribbing Dizzy. "Diz, are you getting ready to go back to the minors?" the fan kept shouting. When Diz finally retired to the side in the sixth he walked over to the heckler and yanked him up by his coat lapels. Before Diz could land a strike, the umpires chased

him out of the game. In the end Diz not only lost it (his 17th shellacking) but the Tigers suspended him for five days without pay.

JAMES P. WHITE

Detroit, Mich.



War has wrought changes in the quality of a lot of things, but it hasn't changed the fine quality of

OLD GRAND-DAD
KENTUCKY STRAIGHT BOURBON WHISKEY

That name on a bottle marks a bourbon made to the same high standard which won it the reputation, Head of the Bourbon Family.

TAX NOTE: You pay no tax on the quality of a whiskey — only on the quantity. Why not choose the best?

KENTUCKY STRAIGHT BOURBON WHISKEY

BOTTLED IN BOND, 100 PROOF

Copyright 1942, National Distillers Products Corporation, New York

STAR'S MIRACLE PROCESS

6NX

REG. U.S. PAT. OFF.
CREATED TO MEET TODAY'S SHAVING NEEDS



★ Boy oh boy, what news! The new 6NX process gives Star Double Edge Blades a special, stronger steel that stands up longer—produces more shaves per blade! Every blade is perfect—there's not a dud in a ditty-bagful!



★ Sure, and the 6NX formula gives Star Double Edge Blades a sharper edge! You'll get closer, more comfortable, longer-lasting shaves! You'll know you've got the shaving situation well in hand when you introduce that double edge razor to a Star!



★ Made with tougher steel, new machines, and extra sharpening, Star Double Edge Blades out-manuever the wiriest whiskers.

MAKE YOUR BLADES LAST!

Handle them carefully!
Dry them thoroughly!
Protect the edges! Save steel by getting full life from every blade!



Economy 25¢ pack - also 10¢ pack

STAR DOUBLE EDGE BLADES

FOR DOUBLE EDGE RAZORS

PICTURES TO THE EDITORS

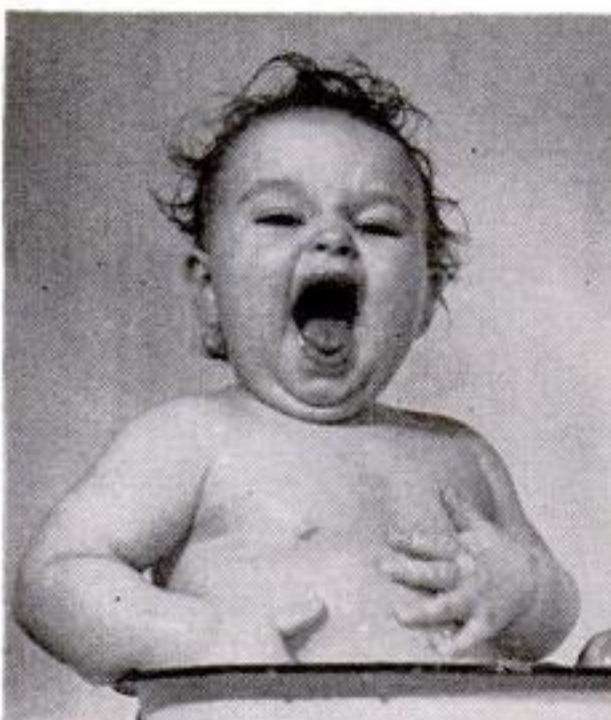
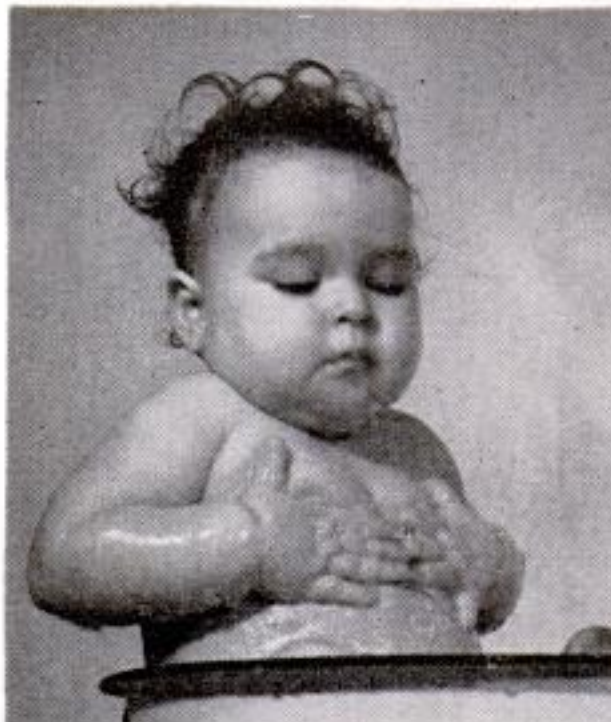
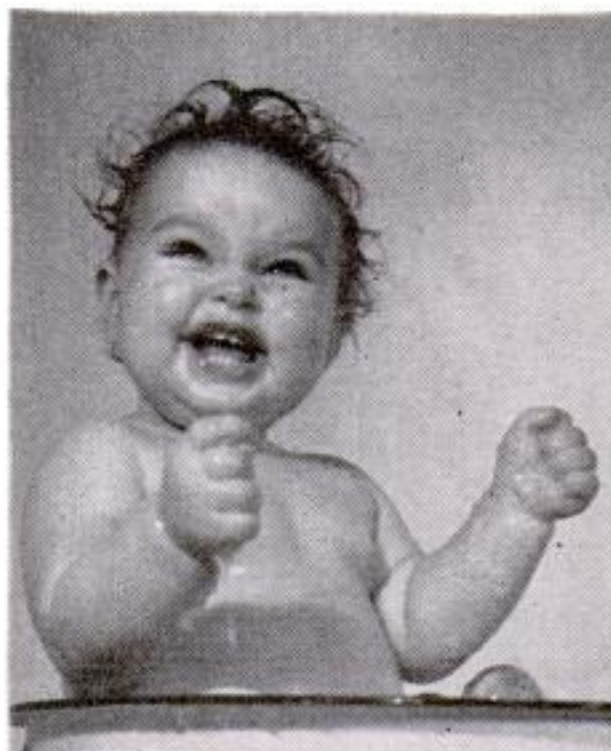
(continued)

TECHNIQUE

Sirs:

My 14-month-old daughter Twila Victorine has just abundantly proved to me that the way to learn how to do things is by doing them. On the basis that it was time she should learn to help herself in a busier-than-usual world, I presented her recently with the problem of washing herself, which she tackled, enjoyed and solved with gusto. As my pictures show, she first squealed with delight, then had a soapy and breathless moment, next shouted when she dropped the soap and lastly tasted a bar.

MRS. B. A. MARSH
Chicago, Ill.



How to keep your lighter good as new . .



Brush spark wheel regularly. Use only genuine extra-length RONSON * REDSKIN "FLINTS" (protectively coated), RONSON Wicks, and, above all, use RONSONOL Fuel. **NOT** cheapest but world's best for all lighters

RONSON

LIGHTER ACCESSORIES

by makers of RONSON, World's Greatest Lighter

[If your dealer cannot supply you, write us]

IMPORTANT. As a wartime measure, RONSON extends its Factory Repair Service to help keep every RONSON in active use. If your RONSON—for pocket or table—needs attention, send it to the factory for servicing at minimum cost. Address RONSON, Service Department, Newark, N. J.

Buy War Bonds

*Trademark Reg.



A CANARY Thrills FRANCES LANGFORD

Appearing in "YANKEE DOODLE DANDY"—A Warner Brothers production. And you, too, should know the joy a Canary can bring in these difficult days. To keep your Canary happy, feed him FRENCH'S Bird Seed and Biscuit.



OWN A CANARY—THE ONLY PET THAT SINGS



"Genuine Orange Blossom"

ENGAGEMENT & WEDDING RINGS
THE RIGHT RINGS FOR THE LEFT HAND

(Write for free, illustrated folder)

TRAUB MANUFACTURING COMPANY
1934 McGRAW DETROIT, MICHIGAN



Here comes Sani-Flush!

Every application of Sani-Flush cleans away unsanitary film and incrustations where toilet germs lurk. It flushes away a cause of toilet odors. You don't have to scrub. No messy work. Use Sani-Flush at least twice a week to keep toilet bowls glistening-clean and above suspicion.

Don't confuse Sani-Flush with ordinary cleansers. It works chemically. Even cleans the hidden trap. (Also cleans out auto radiators thoroughly.) When used according to directions on the can—Sani-Flush cannot injure septic tanks or their action and is absolutely safe in all toilet connections and auto cooling systems. Sold everywhere in two convenient sizes. The Hygienic Products Company, Canton, Ohio.



Sani-Flush CLEANS TOILET BOWLS WITHOUT SCOURING

Buy U. S. War Bonds



OTIS
Healthweight
UNDERWEAR
Just Enough
Extra Warmth
Without Bulk

Mid-thigh and ankle length

OTIS UNDERWEAR
57 Worth St., New York

Help Kidneys If Back Aches

Do you feel older than you are or suffer from Getting Up Nights, Backache, Nervousness, Leg Pains, Dizziness, Swollen Ankles, Rheumatic Pains, Burning, scanty or frequent passages? If so, remember that your Kidneys are vital to your health and that these symptoms may be due to non-organic and non-systemic Kidney and Bladder troubles—in such cases Cystex (a physician's prescription) usually gives prompt and joyous relief by helping the Kidneys flush out poisonous excess acids and wastes. You have everything to gain and nothing to lose in trying Cystex. An iron-clad guarantee assures a refund of your money on return of empty package unless fully satisfied. Don't delay. Get Cystex (Siss-tex) from your druggist today. Only 35c.

PICTURES TO THE EDITORS

(continued)

SALVAGE

Sirs:

At the close of World War I, wool Red Cross uniforms (top picture) were sold out at \$1. Today I find that I made a good purchase. Unearthing the uniform from its mothproof wrappings I remodeled it for my daughter Jerry into a 1942 business suit.

MRS. F. MONNOT

San Jose, Calif.



BIG BEER

Sirs:

I am enclosing a picture of myself holding up a glass of beer. I bought it in Baltimore, Md. I'm sure it is the biggest glass of beer in the whole of the U. S. A. It weighs 80 ounces and costs 25¢. My brother who lives in Baltimore drinks two of them every day.

JAMES SCOGGINS

Dallas, Texas



WITH YOUR HELP... THIS MAN CAN ADD 25% TO 50% TO YOUR TIRE MILEAGE

★ If you punish your tires beyond the stage of SAFE REPAIR . . . no repairman, regardless of how expert he may be, can help you.

BUT . . . if you are patriotically determined to get every possible mile from your tires . . . if you will exercise every careful driving precaution . . . and then take your tires to expert repairmen when the first sign of trouble appears . . . you will add from 25% to 50% to your tire mileage.

"ANY PREVENTABLE TIRE FAILURE IS A STAB IN OUR NATION'S BACK"

Because tires are so precious . . . so necessary to our war effort . . . so hard to get, it's a crime to abuse and neglect tires. Uncle Sam needs rubber . . . Don't waste it!

SAYS:
Bob Bowes

President and Founder, Bowes
"Seal Fast" Corp., Pioneer in
Safe Tire Repairs.



Begin Now!


. . . get your tires inspected . . . INSIDE and OUT, right away. Small cracks, cuts and bruises can be fixed when they're "young." With proper "in time" repairs and careful driving, your tires will last many extra miles. Take your tire problems to a Bowes Tire Repair Expert. If anyone can help you . . . HE can. Remember—the smallest cut or hole is a danger sign. Get it repaired . . . NOW!

BOWES




Dependable
**TIRE REPAIR
SYSTEM**

**"Here's My Secret
of Perfect
Pipe Smoking"**



Leonard R. Selman
Pres. Rum & Maple
Tobacco Corp.



It took me 15 years to discover this secret of perfect pipe pleasure which I now invite you to share on an absolutely free trial basis!

Try it...at No Cost!

ALTHOUGH I was "in the business", I frankly couldn't find a tobacco that fully pleased me until one day, quite by accident, I blended four carefully aged domestic and imported tobaccos (including rare Syrian Latakia) with Jamaica Red Heart Rum and pure Vermont Maple. It took 53 test-blendings to perfect this unusual mixture.

The result was amazing—an entirely different smoking thrill that let me taste for the first time how downright swell a pipe could really be! Of course, good news travels fast! One friend told another about it—and almost overnight, my Original Rum & Maple, Blend 53 became America's biggest-selling 25c pipe tobacco!

A HIT WITH THE LADIES

But you'll have to smoke it yourself before you can begin to realize what real pipe pleasure can now be yours. Just taste the smooth, cool richness of this superb mixture, and see how kind it is to your tongue and throat... actually as mild as a cigarette! Then get a whiff of its tangy aroma—so clean, rich and refreshing, it's a sure hit with everyone... especially

the ladies! Rum & Maple leaves no stale, musty tobacco hangover in the room or on your breath... keeps your pipe and your taste *always fresh!*

ACT NOW! Mail the coupon immediately for a generous free sample package of Original Rum & Maple, Blend 53. Or, to enjoy this exceptional smoke *right now*—get a package at your dealer's on my money-back guarantee of complete satisfaction. Take it from me—you've never enjoyed another smoke like Rum & Maple! You'll find it's *always welcome in your pipe, makes your pipe welcome everywhere!*



**RUM and
MAPLE**
PIPE MIXTURE

Rum & Maple Tobacco Corp.
Dept. L, 191 4th Ave., N. Y. C.
Please send me package of your Rum & Maple
Pipe Mixture. I understand it's *absolutely free!*
Name.....
Address.....
City..... State.....

PICTURES TO THE EDITORS

(continued)

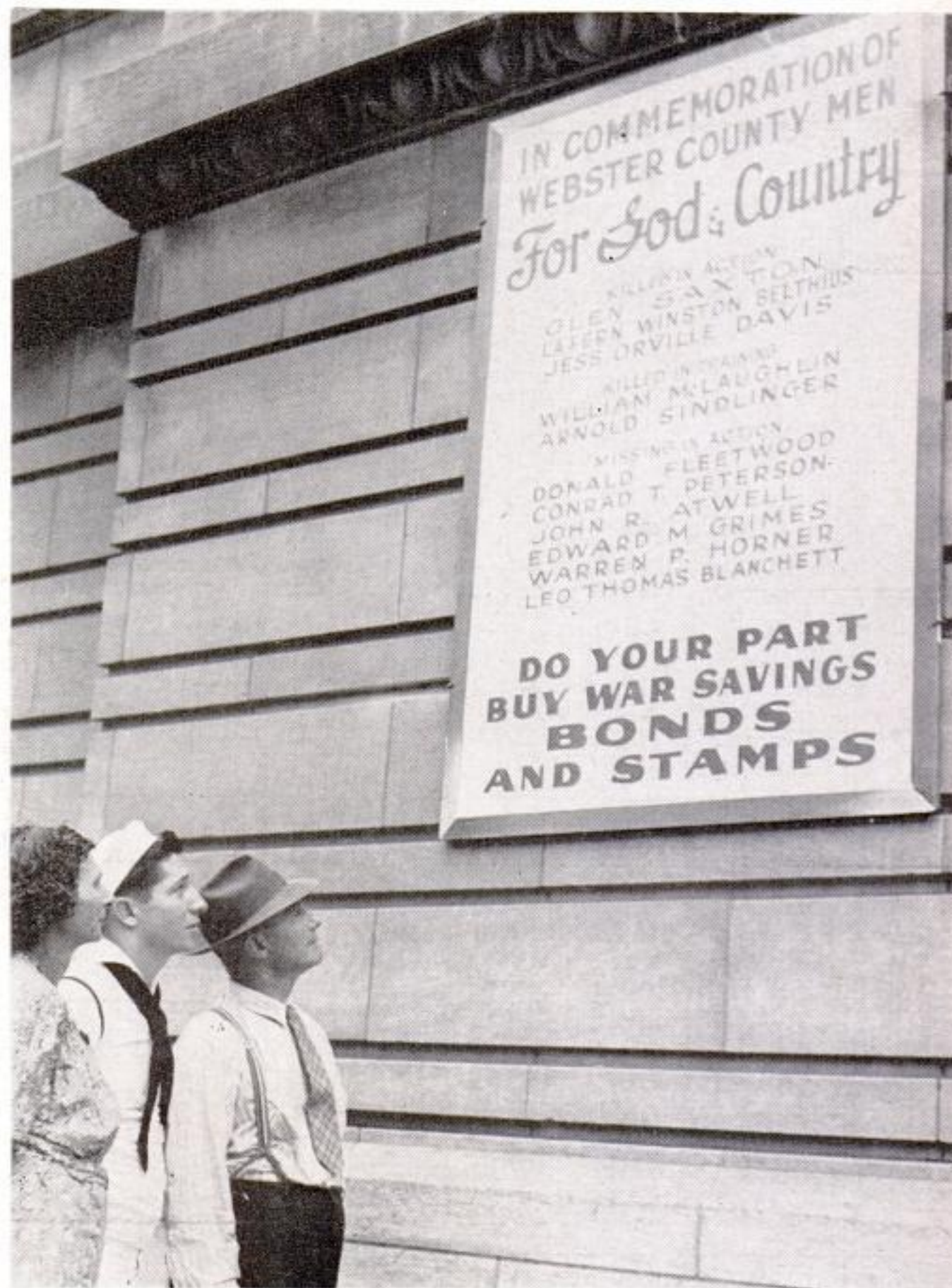
IN MEMORIAM

Sirs:

When Leo Thomas Blanchett—reported missing when his ship was torpedoed—turned up at his parents' farm in Webster County, Iowa, he found them about to attend the unveiling of a mem-

orial plaque honoring the county's fallen heroes. A very live hero indeed, Son Leo had a large chicken dinner before going with his parents to inspect the tablet bearing his name (bottom on list).

CHARLES RUBENSTEIN
Fort Dodge, Iowa



UNTO DEATH

Sirs:

There is no more enduring love than that of a true railroad man for his iron horse. When Thomas W. Goodman, for many years a locomotive engineer on the Norfolk and Western Railway Co. line,

died in 1929, his widow commissioned a stonecutter to sculpt for his tombstone a scale model of Locomotive 227 which he had so often and lovingly driven over the rails.

OTTO WHITTAKER
Roanoke, Va.



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WELL DONE!

Getting Extra use from vital
an Extra good drink—made

materials deserves
with "America's Best"



AMERICA *Makes the Best* OF EVERYTHING!

THE BEST OF THE TIMES . . . and the Best of Products in every field, including the World's Best Whiskey! From Schenley's vast reserves, the largest in the U. S. A. — you get the best whiskeys from Kentucky, Indiana, Pennsylvania and Maryland — blended with finest grain neutral spirits for perfect mildness. It's unique — it's America's Best — try it tonight!



THE TASTE IT TAKES FOUR STATES TO MAKE

SCHENLEY, 72½% Grain Neutral Spirits. SCHENLEY RESERVE, 67% Grain Neutral Spirits. Both BLENDED WHISKEY, 86 Proof. Schenley Distillers Corporation, New York City.



"TIN FISH"—that means torpedo in submarine language. The phrase, "the smoking lamp is lit" means Camels are in order—for with men in the Navy, the favorite cigarette is Camel. (See below.)

**You want
STEADY NERVES
to launch a "tin fish"
or make one!**

HIDE-AND-SEEK. A deadly game of it with the T.N.T. of depth charge and torpedo. That's a game only for steady nerves!

But, then, what isn't in these days—with all of us fighting, working, living at the highest tempo in years. Yes, and smoking, too—perhaps even more than you used to.

If Camels are not your present brand, try them. Not just because they're the favorite in the service or at home—but for the sake of your own smoking enjoyment, try Camels. Put them to the "T-Zone" test described below and make your own comparisons.

R. J. Reynolds Tobacco Company, Winston-Salem, North Carolina



FOR
**STEADY
PLEASURE**
CAMELS SUIT
ME TO A 'T'

FIRST IN THE SERVICE—

In the Navy—in the Army—in the Marine Corps—in the Coast Guard—the favorite cigarette is Camel.

(Based on actual sales records in Ship's Service Stores, Ship's Stores, Sales Commissaries, Post Exchanges, and Canteens.)

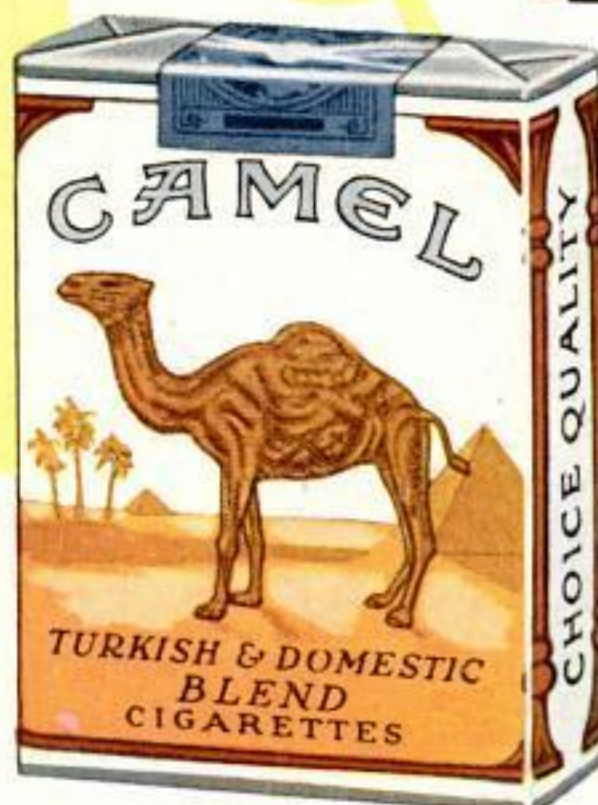
**—THE CIGARETTE OF
COSTLIER TOBACCOS**



The **"T Zone"**
where cigarettes
are judged

The **"T-ZONE"**—Taste and Throat—is the proving ground for cigarettes. Only your taste and throat can decide which cigarette tastes best to you... and how it affects your throat. For your taste and throat are absolutely individual to you. Based on the experience of millions of smokers, we believe Camels will suit your **"T-ZONE"** to a **"T."** Prove it for yourself!

Camel



CAMELS WIN WITH
ME ON EVERY
COUNT. THEY'RE EASY
ON MY **T**HROAT AND
THEY DON'T TIRE MY
TASTE



GYROSCOPE GIRL—Pretty Rosemary Gregory (above) calibrates automatic directional devices at a Sperry Gyroscope Co. plant, and she's just as partial to Camels as the fighting men who depend on her precision. She says: "I tried several brands; Camels suit me better all ways. For my taste and my throat, Camels are tops with a capital **"T!"**"